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SEED TRADE 1929 BUYERS GUIDE

THE SEED MERCHANTS' DIRECTORY

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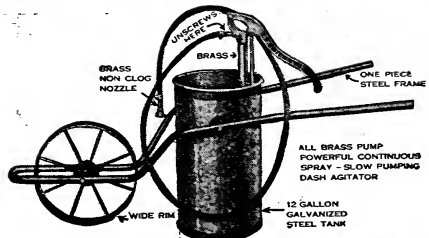
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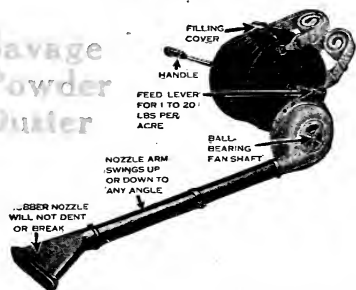
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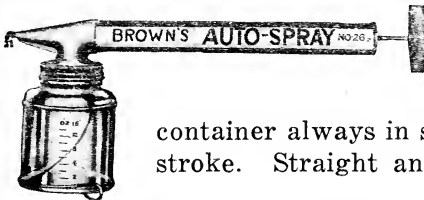
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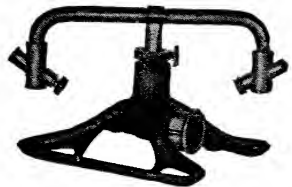
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For 1929

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Containing Classified Listings of Seed Growers, Wholesalers,
Manufacturers of Equipment, Supplies and
Side-Line Merchandise.

Containing Complete Provisions of the Uniform Seed Law, Tables of
Seed Exports and Imports, Tariff Rates, Planting and Spraying
Tables, Information on Sidelines and Other Data of Inter-
est to the Seed Trade. For Index Refer to Page 5.

It has been the endeavor of the publishers to limit the listings to
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recognized in the trade as being privileged to such
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The publication of this book is made possible through the
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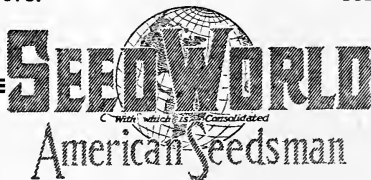
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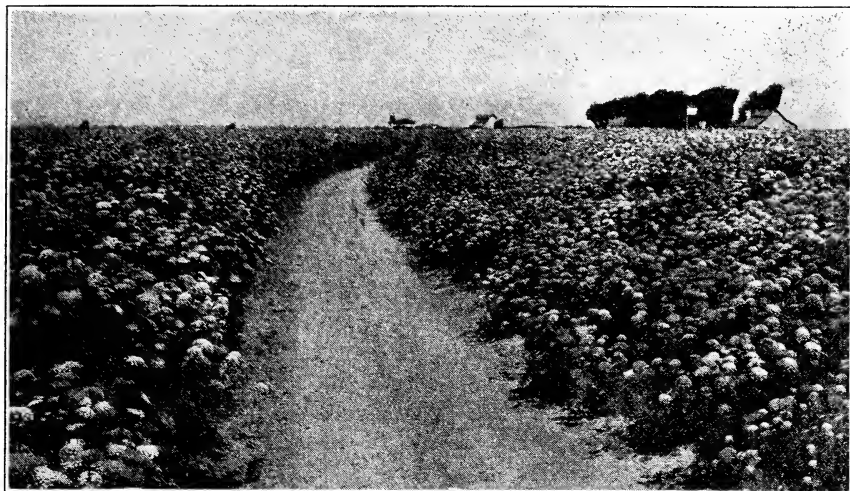
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ONION

BENT GRASS
POA TRIVIALIS
ORCHARD GRASS
WHITE CLOVER
RED CLOVER
HAIRY VETCH

FLOWER SEEDS

LILY OF THE VALLEY PIPS

UNIFORM STATE SEED LAW

(As agreed upon by the Association of Official Seed Analysts, the American Seed Trade Association and the Wholesale Grass Seed Dealers Association in Detroit, June 21, 1917, and as amended in Chicago in 1920 and in Toronto in December, 1921, and in Detroit in June, 1927.)

Title

AN ACT TO REGULATE THE SELLING, OFFERING OR EXPOSING FOR SALE OF AGRICULTURAL SEEDS, AND TO REPEAL ALL LAWS AND PARTS OF LAWS IN CONFLICT WITH THIS ACT.

(Note: Title and enactment clause should be worded in accordance with the requirements of each state.)

Be it enacted by the Senate and House of Representatives in General Court convened;

SECTION 1. That the term "agricultural seeds" or "agricultural seed," as used in this act, shall be defined as the seeds of Canada Blue Grass, Kentucky Blue Grass, Brome Grass, fescues, millets, tall meadow oat grass, orchard grass, red top, Italian ryegrass, kaffir corn, perennial ryegrass, sorghum, Sudan grass, timothy, alfalfa, alsike clover, crimson clover, red clover, sweet clover, white clover, Canada field peas, cowpeas, soy beans, vetches, and other grasses and forage plants, buckwheat, flax, rape, barley, field corn, oats, rye, wheat, and other cereals, which are sold, offered or exposed for sale within this state for seeding purposes within this state.

Label Requirements of Agricultural Seeds

SECTION 2. Every lot of agricultural seeds, as defined in section one of this act except as herein otherwise provided, when in bulk, packages or other containers, shall have affixed thereto, in a conspicuous place, on the exterior of the container of such agricultural seeds, a plainly written or printed tag or label in the English language, stating:

- (a) Commonly accepted name of such agricultural seeds.
- (b) The approximate percentage by weight of purity; meaning, the freedom of such agricultural seeds from inert matter and from other seeds distinguishable by their appearance.
- (c) The approximate total percentage by weight of weed seeds; the term "weed seeds," as herein used, being defined as the noxious weed seeds listed in section 2, subsection (d) and all seeds not listed in section one as agricultural seeds.
- (d) The name and approximate number per ounce of each kind of the seeds or bulblets of the following named noxious weeds which are present, singly or collectively, as follows (1) in excess of one seed or bulblet in each five grams of timothy, red top, tall meadow oat grass, orchard grass, crested dogstail, Canada blue grass, Kentucky blue grass, fescues, brome grasses, perennial and Italian rye grass, western rye grass, crimson clover, red clover, white clover, alsike clover, sweet clover, alfalfa and all other grasses and clovers not otherwise classified; (2) one in twenty-five grams of millets, rape, flax, and other seeds not specified in (1) or (3) of this sub-section; (3) one in one hundred grams of wheat, oats, rye, barley, buckwheat, vetches and other seeds as large or larger than wheat.

Noxious weed seeds or bulblets are defined as the seeds or bulblets of * * * (not more than seven seeds or bulblets should be included here).

(e) The approximate percentage of germination of such agricultural seed together with the month and year said seed was tested, provided, that the state seed commissioner shall test and publish the results of such tests as herein provided, together with the month and year such tests were made by the seed commissioner together with the date of test as shown on label.

(f) Full name and address of the vendor of such agricultural seed.

(Note: List of "agricultural seeds" (Section 1) and "noxious weeds" (Section 2-d) should be in accordance with the conditions in each state.)

Label Requirements of Mixtures of Agricultural Seeds

SECTION 3. Mixtures of agricultural seeds which contain not more than two kinds of such seeds in excess of five per cent by weight of each, when sold, offered or exposed for sale as mixtures, shall have affixed thereto, in a conspicuous place on the exterior of the container of such mixture of seeds, a plainly written or printed tag or label, in the English language, stating:

- (a) That such seed is a mixture.
- (b) The name and approximate percentage by weight of each kind of agricultural seed present in such mixture in excess of five (5) per cent by weight of the total mixture.
- (c) Approximate percentage by weight of weed seeds as defined in Section 2-c of this Act.
- (d) The name and approximate number per ounce of each kind of the seeds or bulblets of the noxious weeds listed in section 2, subsection (d) of this Act which

are present singly or collectively in excess of one seed or bulblet in each fifteen (15) grams of such mixture.

(e) Approximate percentage of germination of each kind of agricultural seed present in such mixture in excess of five (5) per cent by weight, together with the month and year said seed was tested, provided, that the state seed commissioner shall test and publish the results of such tests as herein provided, together with the month and year such tests were made by the seed commissioner together with the date of test as shown on label.

(f) Full name and address of the vendor of such mixture.

Label Requirements of Special Mixtures

SECTION 4. Special mixtures of agricultural seeds except as specified in section 3 of this Act, when sold, offered or exposed for sale as mixtures, in bulk, packages or other containers shall have affixed thereto in a conspicuous place on the exterior of the container of such mixture a plainly written or printed tag or label in the English language stating:

(a) That such seed is a mixture.

(b) The name of each kind of agricultural seed which is present in proportion of 5 per cent or more of the total mixture.

(c) The approximate total percentage by weight of weed seeds as defined in section 2-c of this Act.

(d) Approximate percentage by weight of inert matter.

(e) The name and approximate number per ounce of each kind of seeds or bulblets of noxious weeds listed in section 2, subsection (d) of this Act, which are present, singly or collectively, in excess of one seed or bulblet in each fifteen (15) grams of such mixture.

(f) Full name and address of the vendor of such mixture.

SECTION 5. Whenever the State Seed Commissioner receives information that agricultural seeds, or any mixture of the same, are being sold, offered for sale, or exposed for sale in this State in violation of any of the requirements of this Act, and is of the opinion that the interests of the public so require, he may present to the court of common pleas of the county in which is located the residence or place of business of the person, firm, or corporation selling, offering for sale, or exposing for sale such seeds, his petition for an injunction to restrain the same, and thereupon the court, being satisfied that such seeds are being so sold, offered for sale, or exposed for sale, shall issue its injunction to restrain such person, firm or corporation from selling, offering for sale, or exposing for sale such seeds.

Exemptions

SECTION 6. Agricultural seeds or mixtures of same shall be exempt from the provisions of this Act:

(a) When possessed, exposed for sale, or sold for food purposes only;

(b) When sold to merchants to be recleaned before being sold or exposed for sale for seeding purposes.

(c) When in store for the purpose of recleaning or not possessed, sold or offered for sale for seeding purposes within the State.

Duties and Authority of Enforcing Officer

SECTION 7. The duty of enforcing this Act and carrying out its provisions and requirements shall be vested in the State Seed Commissioner. The said commissioner upon notice to the seed trade of this State, through the agricultural bulletins of the department of the State Seed Commissioner, shall be empowered to adopt such reasonable "rules and regulations" as may be deemed necessary in order to secure the efficient enforcement of this Act; provided further, that the said commissioner shall maintain a laboratory with necessary equipment and may appoint such analysts, inspectors and assistants as may be necessary for the proper enforcement and carrying out of the provisions of this Act, and in his discretion, fix the salaries of said analysts, inspectors and assistants. It shall be the duty of the State Seed Commissioner in his discretion to publish, or cause to be published, the results of the examination, analysis and test of any sample of agricultural seed or mixture of such seed, drawn as provided for in section 9, together with any information he may deem advisable.

SECTION 8. The word "approximate" as used in this act shall be defined in the rule and regulations provided for in this Act, by the State Seed Commissioner, who shall be guided by the "Rules and Methods of Testing" adopted and approved by the Association of Official Seed Analysts of North America.

Inspection, Sampling and Testing

SECTION 9. It shall be the duty of said commissioner, either by himself or his duly authorized agents, to inspect, examine and make analysis of and test any agricultural seeds sold, offered or exposed for sale within this state for seeding purposes within this state, at such time and place, and to such extent as he may determine.

The commissioner, and his agents, shall have free access at all reasonable hours to any premises or structures to make examination of any such agricultural seeds, whether such seeds are upon the premises of the owner or consignee of such seeds or on the premises or in possession of any warehouse, elevator, railway or steamship company and he is hereby given authority in person or by his agents, upon notice to the dealer, his agent or the representative of any warehouse, elevator, railway or steamship company, if present, to take for analysis a composite sample of such agricultural seeds. Said sample shall be thoroughly mixed and two official samples taken therefrom, each official sample shall be securely sealed. One of these official samples shall be furnished to the vendor or party in interest in person, if present, and if not present shall be promptly forwarded to the shipper or owner and the other retained by said commissioner or agent for analysis. In case a sample drawn as provided herein upon test or analysis is found to fall below the statement on the tag or label attached to the lot from which said sample was secured, or to violate any of the provisions of this Act, the vendor or consignee of said lot of seed shall be notified and a copy of said notice mailed to the person, firm or corporation whose tag or label was found affixed thereto. (Payment for samples to be proffered in states where required by State Constitution or state law.)

Violations Defined

SECTION 10. It shall be unlawful for any person, firm or corporation to sell, offer or expose for sale within this state any agricultural seeds, or mixtures of agricultural seeds, as defined in this Act, for seeding purposes within this state without complying with the requirements of this Act, or falsely to mark or label any agricultural seeds, or to interfere in any way with the inspectors or assistants in the discharge of the duties herein named.

Violations and Prosecutions

SECTION 11. Every violation of the provisions of this Act shall be deemed a misdemeanor punishable by a fine not exceeding one hundred dollars, and if the State Seed Commissioner shall find upon examination, analysis or test, that any person, firm or corporation has violated any of the provisions of this Act, he or his duly authorized agent or agents may institute proceedings in a court of competent jurisdiction to have such person, firm or corporation convicted therefor, or the State Seed Commissioner, in his discretion, may report the results of such examination to the Attorney General, together with sworn statement of the analyst, duly acknowledged, and such other evidence of said violation as he shall deem necessary. Provided, however, that no prosecution under this Act shall be instituted except in the manner following: when the State Seed Commissioner finds that the act has been violated, he shall give notice to the person or firm in whose hands the seed was found, designating a time and place for a hearing. This hearing shall be private and the person or firm involved shall have the right to introduce evidence either in person, by agent or attorney. If, after said hearing, or without such hearing, in case said person fails or refuses to appear, the said commissioner decides that the evidence warrants prosecution, he shall proceed as herein provided.

It shall be the duty of the Attorney General, or in his discretion he may act through the Attorney of the Commonwealth of the County or City in which said violation has occurred, to institute proceedings at once against the person, or persons, firms or corporations charged with such violation.

(Note: Proceedings for violation should be instituted according to the laws of each state.)

Provisions for Free Tests

SECTION 12. Any citizen of this state shall have the privilege of submitting to the State Seed Commissioner samples of agricultural seeds for test and analysis, subject to such rules and regulations as may be adopted by said commissioner. Provided that the Seed Commissioner may by such regulations fix the maximum number of samples that may be tested free of charge and for any one citizen in any one period of time and fix charges for tests of samples submitted in excess of those tested free of charge.

SECTION 13. Be it further enacted that there is hereby appropriated annually to the State Board of Agriculture for the purpose of enforcing and carrying out the provisions of this Act the sum of.....dollars, out of the funds of the state not otherwise appropriated. Such salaries and expenses as may be necessary for the proper enforcement of the provisions of this Act shall be paid from said sum herein appropriated, by warrant upon the Auditor of Public Accounts, drawn by the State Seed Commissioner and countersigned by the President of the State Board of Agriculture and he shall keep proper vouchers on file in his office for all expenditures.

(Note: Each state should make its provisions for appropriations and expenditures of funds according to local requirements.)

SECTION 14. Chapter.....of the laws of.....and any other laws or parts of laws in conflict with this Act, are hereby repealed.

SECTION 15. This Act shall be effective on and after.....

BUYERS AND SHIPPERS OF
FIELD SEEDS



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 Seed
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We aim to hit the spot you want us to hit, when you order.

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We Make a Specialty of Growing the Following
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Seed Growers

SACRAMENTO

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German, Spanish, Italian Correspondence

RED CLOVER SEED PRICES AT TOLEDO

	Low and High Cash Prices per Bushel for Prime Seed by Months											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1917..	\$10.60	\$10.75	\$10.55	\$10.50	\$10.60	\$10.75	\$10.95	\$11.90	\$12.75	\$13.85	\$15.30	\$15.90
	11.05	11.75	11.80	10.95	11.25	11.20	12.00	12.95	13.60	15.55	16.30	17.00
1918..	16.75	19.40	19.70	18.00	18.00	12.80	13.10	16.30	19.05	22.55	24.00	24.60
	20.00	21.00	20.75	20.20	18.40	14.20	16.35	19.50	23.80	24.00	26.20	26.00
1919..	24.10	22.30	25.10	29.00	25.00	27.00	27.75	29.75	27.90	30.00	29.55	30.30
	25.65	25.50	30.25	31.00	28.00	27.75	29.75	30.50	30.50	21.80	30.60	31.40
1920..	31.50	34.60	33.25	25.00	26.00	25.00	19.90	17.65	14.10	12.90	11.20	11.70
	39.95	36.40	35.30	34.25	27.50	25.65	25.25	21.55	17.90	15.00	13.95	13.25
1921..	11.70	10.30	11.00	11.90	13.25	13.00	13.00	11.65	11.40	12.30	11.60	12.55
	13.75	11.95	13.25	13.25	13.75	13.75	14.00	14.05	12.95	13.05	12.70	14.00
1922..	13.60	14.00	14.50	13.00	13.75	13.00	13.00	9.50	10.00	11.05	12.75	13.10
	14.05	16.00	16.15	14.60	13.90	13.00	13.00	11.00	11.50	12.70	13.30	13.85
1923..	13.25	12.95	11.95	11.45	11.00	10.05	10.00	11.05	12.25	14.15	12.95	12.95
	13.50	13.65	13.15	12.00	11.45	10.85	10.70	12.65	14.60	15.20	14.25	13.40
1924..	12.60	11.35	11.30	10.75	10.80	11.00	11.35	11.80	12.75	16.50	17.65	19.05
	13.90	12.85	12.35	11.50	11.40	11.65	12.40	13.30	17.60	18.20	19.90	19.80
1925..	19.15	18.10	16.50	16.40	15.00	16.25	16.00	16.25	14.80	16.75	14.30	14.75
	19.85	20.00	18.75	17.20	16.30	17.55	17.25	17.45	16.75	18.25	15.50	17.00
											*18.50	*18.25
											*18.75	*18.50
1926	14.85	14.85	14.25	14.35	14.35	17.50	17.50	17.75	19.25	19.00	20.00	20.00
	16.00	15.70	15.40	14.40	17.50	17.70	17.75	19.50	21.75	20.00	20.00	20.50
	*18.75	*20.00	*21.00	*21.00	*21.00	*21.50	*22.00	†	*21.00	*21.00	21.60	22.25
	*20.00	*21.00	*21.00	*21.00	*21.00	*22.00	*22.00	†	*21.75	*22.75	22.50	22.85
1927	20.50	21.50	16.75	16.75	13.75	13.00	13.90	13.75	13.75	14.00	15.50	16.30
	21.50	23.00	17.65	17.40	16.85	13.90	14.25	14.00	14.50	15.50	16.40	16.40
	*23.00	*23.50	*24.75	*26.50	*26.50	**	.....	.....	.....	*15.60	*17.60	*17.55
	*23.50	*24.75	*27.00	*27.00	*26.50	**	.....	.....	.....	*17.90	*18.40	*18.70
1928	15.75	14.75	14.50	13.75	12.60	13.00	14.25	14.00	14.00	13.75	.....	.....
	16.30	15.75	14.75	14.50	13.75	14.25	14.25	14.25	14.25	14.25	.....	.....
	*18.05	*16.50	*16.65	*16.75	*16.50	*16.60	*17.75	*17.00	*17.50	*18.00	.....	.....
	*18.85	*18.05	*17.75	*17.25	*16.60	*17.75	*18.00	*17.50	*18.20	*18.65	.....	.....

*Domestic red clover seed. Other quotations in November and December of 1925 and all of 1926, 1927, and 1928 are on imported seed.

†Stopped quoting cash domestic from July 22 to September 24, 1926.

**Stopped quoting cash domestic May 14, 1927.

RANGE OF MARCH CLOVER SEED PRICES AT TOLEDO

Low and High Prices per Bushel by Months

	Crop of	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1918	16.60	19.35	22.30	24.00	24.80	23.45	22.00	24.50
		19.50	23.25	24.00	26.10	26.25	25.85	25.00	30.25
1919	28.60	28.60	29.25	29.65	30.15	31.60	34.20	32.70
		30.50	29.80	31.25	30.50	31.40	35.70	35.42	34.25
1920	18.25	14.65	13.17	11.60	12.10	11.90	10.05	11.05
		21.25	18.60	15.90	14.40	13.35	13.90	12.10	12.95
1921	11.70	11.40	12.30	11.75	12.55	13.20	14.00	14.50
		13.95	13.30	12.95	12.75	13.35	14.25	15.95	16.15
1922	9.05	9.85	11.35	12.85	13.35	13.35	12.70	12.75
		10.30	11.70	12.80	13.50	13.90	13.65	13.50	13.05
1923	11.90	13.15	13.85	13.05	13.05	12.80	11.35	11.50
		13.40	15.20	14.60	13.90	13.60	14.05	13.05	12.35
1924	13.00	13.20	17.00	17.95	19.15	19.35	18.00	16.50
		13.65	18.50	18.50	19.95	20.00	20.10	19.85	18.45
1925	14.45	14.45	15.05	14.75	14.65	14.65	14.85	14.25
		15.35	16.05	16.00	15.50	15.20	16.10	15.75	15.40
1926	17.25	16.90	15.95	16.85	17.45	17.70	16.60	16.65
		17.75	19.20	17.25	17.70	18.00	18.50	17.85	17.65
1927	15.85	15.95	17.60	17.80	18.00	16.40	16.65
		16.80	17.75	18.50	18.70	19.00	18.00	17.75
1928	*

*Stopped quoting March Clover Seed March 31.

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Onion Sets, Seed Grain, Seed Corn, Etc.

Ask for Samples and Quotations

ALSIKE CLOVER SEED PRICES AT TOLEDO

High and Low Cash Prices per Bushel by Months

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1917	\$11.20 11.35	\$11.35 11.80	\$11.45 11.60	\$11.50 11.60	\$11.50 11.50	\$11.35 11.50	\$11.00 12.30	\$11.15 12.35	\$12.40 12.75	\$12.70 14.00	\$14.00 14.50	\$14.30 14.60
1918	14.70 16.60	15.25 18.00	15.25 15.90	15.25 15.50	15.00 15.25	11.25 14.50	11.25 14.50	14.50 15.50	15.75 18.50	18.05 18.50	18.55 20.00	19.45 19.75
1919	17.30 19.65	16.50 17.50	16.75 25.50	24.00 26.00	26.00 26.00	19.00 22.25	22.25 26.25	24.25 25.75	24.30 26.50	26.50 29.75	29.50 31.25	30.05 33.00
1920	32.80 36.25	34.70 36.20	34.85 36.50	27.00 36.25	22.50 30.00	24.50 26.75	21.00 25.00	17.50 21.50	15.25 18.00	16.50 18.50	15.60 18.00	16.25 17.75
1921	15.50 17.50	14.50 15.50	13.00 15.00	13.50 14.15	13.50 13.50	13.50 13.50	10.10 12.25	10.05 11.35	10.45 10.75	10.50 10.75	10.25 10.90	10.70 11.40
1922	11.40 12.00	12.00 12.65	11.50 12.50	10.50 11.50	10.50 11.50	11.50 11.75	10.25 11.75	9.50 10.25	10.00 10.25	10.05 11.00	10.45 11.50	10.65 11.00
1923	10.55 10.95	10.45 10.60	10.45 10.50	10.50 10.50	10.00 10.50	10.25 10.25	10.15 10.25	10.15 11.15	10.40 10.75	10.00 10.50	9.25 10.00	9.30 9.45
1924	8.70 9.50	8.35 8.80	8.70 9.20	8.75 9.50	9.70 10.20	9.80 10.80	10.65 10.80	10.00 10.80	10.00 12.25	12.15 12.75	12.25 13.30	12.60 13.25
1925	13.05 13.60	12.60 13.60	12.75 14.25	14.40* 15.15	.....	.....	.....	.....	.....	.....	.....	15.60 16.25
1926	16.00 16.50	16.50 17.00	17.00 17.00	17.00 17.00	17.00 17.00	15.00 17.00	14.50 15.50	14.50 16.25	16.50 18.75	18.00 18.50	18.25 19.75	19.75 20.85
1927	21.00 22.50	22.50 22.75	22.75 23.75	23.75 24.00	24.00 24.00	.....	.....	14.60 17.00	14.80 15.25	14.80 15.40	15.40 16.70	16.00 16.80
1928	16.20 16.30	15.95 16.25	15.00 15.95	15.00 15.45	15.00 15.00	15.00 16.25	16.25 16.50	16.25 18.75	18.75 18.75	18.75 19.75	.....	.....

*Cash prices not quoted after April 20, 1925.

EXPORTS OF CLOVER SEED (ALL KINDS)

Years Ending June 30

Year	Pounds
1909	16,186,133
1910	6,977,685
1911	4,359,167
1912	1,874,682
1913	5,407,594
1914	4,640,852
1915	9,750,064
1916	7,116,220
1917	5,886,893
1918	9,439,314
1919	7,770,582
1920	5,061,792
1921	5,419,838
1922	4,007,233
1923	4,331,153
1924	784,471
1925	1,862,925
1926	973,109
1927	1,992,906
1928	1,838,783

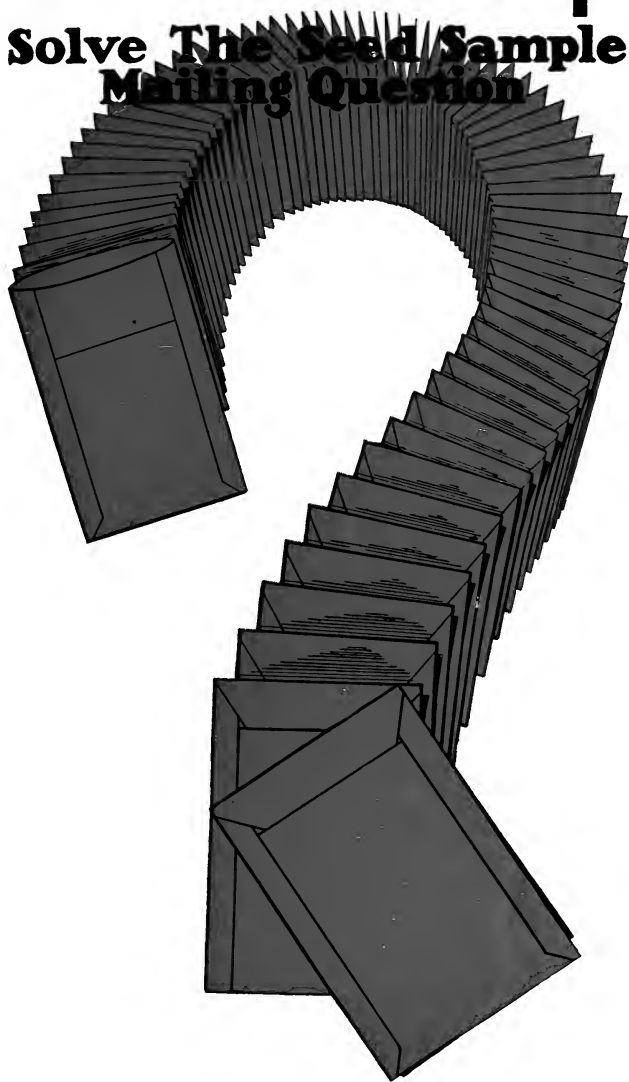
EXPORTS OF TIMOTHY SEED

Years Ending June 30

Year	Pounds
1909	26,342,842
1910	18,044,488
1911	7,893,121
1912	11,111,807
1913	3,542,705
1914	13,689,707
1915	17,646,273
1916	12,428,140
1917	15,139,913
1918	8,564,384
1919	11,673,029
1920	15,304,646
1921	14,989,518
1922	20,150,357
1923	20,131,903
1924	15,501,856
1925	16,457,687
1926	9,942,494
1927	14,060,447
1928	17,677,670

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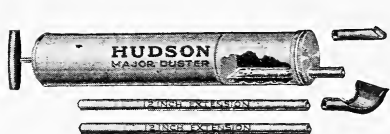
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From Ten Cents to One Hundred Dollars
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They Are Improved and Developed to the Highest
Standard of Quality.*

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of getting up-to-the-minute merchandise, tested
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WRITE FOR 42-PAGE CATALOG

PRICES OCTOBER CLOVER SEED AT TOLEDO

Low and High Prices per Bushel by Months

Crop of	March	April	May	June	July	Aug.	Sept.	Oct.
1915	7.97 8.50	8.02 8.50	8.25 8.50	8.35 8.72	7.95 8.82	8.50 10.30	9.62 13.00	12.20 13.40
1916	8.47 8.77	8.45 9.00	8.50 8.95	8.72 9.22	8.92 9.50	8.50 11.20	8.90 10.05	9.45 10.90
1917	9.55 9.90	9.85 11.80	11.35 11.92	11.40 11.75	11.50 13.00	12.50 13.95	13.35 13.95	13.85 15.55
1918	19.70 20.85	18.00 20.20	18.00 18.40	12.80 14.20	13.10 16.35	16.30 19.50	19.05 23.80	22.55 24.00
1919	17.00 19.30	17.15 19.75	19.75 22.00	21.50 25.50	26.20 32.50	29.50 32.35	28.15 30.60	30.00 31.80
1920	23.00 25.25	22.00 24.25	23.40 24.25	23.50 26.25	20.15 25.95	18.20 21.75	14.60 18.55	12.90 15.60
1921	9.00 9.95	8.85 9.40	9.50 10.50	10.35 12.25	11.35 14.00	11.65 14.05	11.40 12.95	12.30 13.65
1922	11.00 12.35	11.10 12.00	11.05 11.60	10.80 11.35	10.67 11.40	8.97 10.27	9.70 11.50	11.05 12.70
1923	11.20 11.72	11.45 11.95	11.70 12.30	11.00 11.97	10.90 11.55	11.85 13.35	13.10 15.65	14.30 15.60
1924	11.92 12.65	11.75 12.40	11.85 12.40	12.00 12.65	12.35 13.60	12.50 14.30	13.90 19.00	17.30 19.00
1925	13.00 14.00	13.00 14.50	13.05 14.25	14.50 16.10	14.55 16.00	14.75 16.00	14.75 17.25	16.75 18.25
1926	15.65 16.50	15.65 16.70	16.50 19.50	19.25 20.75	19.65 21.25	19.95 22.10	20.75 22.50	21.00 22.75
1927	16.50 17.50	16.45 17.00	16.00 16.85	16.50 16.95	16.60 17.50	17.00 18.00	15.00 17.25	15.70 17.90
1928	15.00 16.15	16.25 17.75	17.30 17.75	17.75 18.75	18.65 19.10	17.30 18.65	18.00 18.60	18.30 18.65

NUMBER OF PLANTS TO AN ACRE

SET AT REGULAR DISTANCES APART

Distance apart	No. Plants	Distance apart	No. Plants	Distance apart	No. Plants
3 in. by 4 in.	522,720	3 ft. by 3 ft.	4,840	5 ft. by 5 ft.	1,742
4 in. by 4 in.	392,040	3½ ft. by 3½ ft.	3,555	5½ ft. by 5½ ft.	1,440
6 in. by 6 in.	174,240	4 ft. by 1 ft.	10,890	6 ft. by 6 ft.	1,200
1 ft. by 1 ft.	43,560	4 ft. by 2 ft.	3,630	6½ ft. by 6½ ft.	1,031
1½ ft. by 1½ ft.	19,360	4 ft. by 4 ft.	2,722	7 ft. by 7 ft.	888
2 ft. by 1 ft.	21,780	4½ ft. by 4½ ft.	2,150	8 ft. by 8 ft.	680
2 ft. by 2 ft.	10,890	5 ft. by 1 ft.	8,712	9 ft. by 9 ft.	537
2½ ft. by 2½ ft.	6,960	5 ft. by 2 ft.	4,356	10 ft. by 10 ft.	435
3 ft. by 1 ft.	14,520	5 ft. by 3 ft.	3,904	11 ft. by 11 ft.	360
3 ft. by 2 ft.	7,260	5 ft. by 4 ft.	2,178	12 ft. by 12 ft.	302

RULE—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and the product will be the number of square feet for each plant or hill; which divided into the number of square feet (43,560), will give the number of plants to the acre.

MONTHLY CASH PRICES OF TIMOTHY SEED

The following table exhibits the monthly range of prices, per 100 lbs., for cash Timothy Seed in the Chicago market during the past 21 years:

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1908.....	4.35 4.55	4.60 4.85	4.50 4.85	4.25 4.65	4.10 4.25	3.80 4.00	3.92 4.10	3.60 3.60	3.25 3.75	3.40 3.75	3.75 4.00	3.75 3.80
1909.....	3.80 4.00	3.60 3.90	3.75 3.85	3.70 3.80	3.80 4.00	3.80 3.90	3.80 3.80	3.55 3.80	3.50 4.00	3.75 4.00	3.75 3.75	3.75 3.75
1910.....	3.75 4.20	3.90 4.20	3.70 4.60	4.40 4.60	4.00 4.40	4.35 5.00	5.00 6.00	5.00 7.50	8.00 10.00	8.50 9.60	9.60 9.85	9.85 10.00
1911.....	10.00 10.70	10.50 12.50	11.25 12.50	11.75 12.00	12.00 12.00	12.00 12.00	12.00 13.25	13.50 15.00	14.50 15.50	15.25 16.00	16.00 16.25	16.00 16.25
1912.....	16.00 16.25	15.00 16.25	15.25 16.00	13.50 15.00	11.50 14.50	11.50 12.00	6.50 12.00	5.00 6.25	4.00 5.10	4.10 4.50	3.80 4.15	4.00 4.15
1913.....	4.00 4.20	3.50 4.05	3.60 3.85	3.80 3.95	3.95 4.25	4.10 5.40	5.15 5.30	5.25 5.90	5.30 5.70	5.25 5.55	5.30 5.50	5.40 5.55
1914.....	5.40 5.55	5.30 5.50	5.00 5.50	5.00 5.40	5.00 5.50	5.00 5.75	5.50 6.75	5.80 6.50	5.50 6.50	5.40 5.60	5.30 5.90	5.90 7.85
1915.....	7.75 8.00	7.30 7.75	6.65 7.40	6.90 7.25	6.50 7.25	6.75 7.50	6.00 7.50	6.40 10.00	8.00 9.25	7.75 8.50	8.00 8.50	8.00 9.00
1916.....	8.35 8.80	8.40 8.80	8.50 9.00	8.50 8.50	8.50 9.25	8.75 9.25	8.25 8.75	5.25 8.50	5.00 5.25	5.00 5.35	5.25 5.75	5.45 5.75
1917.....	5.30 5.75	5.40 5.50	5.75 5.90	6.00 7.75	6.75 8.40	7.25 8.00	7.50 8.50	7.60 8.00	6.50 8.25	6.75 8.25	7.00 8.50	7.00 7.50
1918.....	7.15 8.00	7.25 7.50	7.00 7.50	7.00 7.75	7.15 7.75	7.00 8.50	8.50 9.00	8.95 10.00	9.85 11.00	10.50 12.00	10.00 12.50	11.00 12.15
1919.....	11.40 11.75	10.00 11.25	11.00 11.50	10.75 13.50	13.00 14.00	12.60 13.00	12.65 13.25	12.50 12.70	12.00 12.75	12.00 12.75	12.10 12.80	12.00 12.50
1920.....	13.50 15.50	13.75 15.40	13.00 14.65	12.00 13.50	11.50 12.75	11.50 12.75	12.50 12.75	10.00 11.40	9.50 9.75	5.00 7.25	5.00 6.75	5.50 7.00
1921.....	5.50 6.75	4.50 6.25	5.00 6.75	6.00 7.65	7.00 7.85	7.00 7.30	6.25 7.50	5.90 6.75	5.50 6.00	5.75 6.75	6.00 7.50	7.00 7.25
1922.....	7.00 8.00	7.25 7.75	7.00 7.75	7.00 7.25	7.00 7.00	6.00 6.25	5.00 6.25	6.00 6.25	6.00 7.00	6.50 7.50	7.00 7.50	7.00 7.75
1923.....	7.25 7.50	7.25 7.50	7.25 7.50	7.25 7.25	7.00 7.75	7.75 7.75	..... .....	..... .....	7.60 8.00	8.00 9.50	8.00 9.00	8.00 9.00
1924.....	8.50 10.25	8.75 10.25	8.50 10.00	8.75 9.00	8.25 8.75	8.75 8.75	8.75 8.75	6.00 7.50	4.75 6.65	4.75 6.00	4.85 6.35	5.50 6.65
1925.....	5.75 6.40	5.25 6.15	5.25 5.90	5.25 6.30	5.50 6.40	6.35 7.70	6.85 7.35	6.75 7.75	6.50 7.75	6.75 7.75	6.50 7.75	6.50 8.00
1926.....	6.50 8.10	6.40 7.65	6.05 7.20	6.00 7.00	6.00 7.00	6.00 7.00	6.00 7.50	5.00 7.50	5.00 6.10	5.00 5.75	4.75 5.15	5.00 5.25
1927.....	4.85 5.75	4.50 5.25	4.50 4.75	4.25 4.75	4.00 4.25	4.00 5.50	4.00 5.50	3.50 4.75	2.25 3.75	2.25 3.25	3.25 4.50	3.25 4.50
1928.....	3.25 4.25	3.00 4.25	3.00 3.75	3.00 4.25	3.30 4.25	3.30 4.45	3.35 4.45	3.35 4.50	3.50 5.60	4.75 6.00	..........	..........

Kentucky Blue Grass Seed

Grown in the

Heart of the Blue Grass Section

Purchasers are assured of choice lots of carefully selected seed, thoroughly cleaned and graded.

Your inquiries are solicited.

SPEARS-KISER COMPANY

PARIS, KENTUCKY

HALEY-NEELEY COMPANY

Buy and Sell High Grades of

**Field and
Grass Seed**

Sioux City, Iowa
Sioux Falls, South Dak.



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Associated:
TODD & KRAFT CO.,
Des Moines, Iowa

Kansas Grown Seed

**ALFALFA, SWEET CLOVER,
SUDAN and CANE**

Alfalfa Seed Verified as to Origin by U. S. Dept. of Agric.

The Sedgwick Alfalfa Mills

Sedgwick, Kansas



FORAGE PLANT SEEDS PERMITTED ENTRY UNDER FEDERAL SEED ACT

By Fiscal Years Ending June 30, 1923-1928, and by Countries Exporting

(Reported by the U. S. Seed Laboratory, Washington, D. C.)

ALFALFA						
COUNTRY	1923 Pounds	1924 Pounds	1925 Pounds	1926 Pounds	1927 Pounds	1928 Pounds
Argentina	7,751,600	7,133,200	1,037,900	221,700	(1)73,700	
Canada	3,600	960,600	1,689,600	4,218,800	5,058,400	728,300
Chile						
Czecho-Slovakia						
England	*573,600	21,400				
France		2,905,700	886,200		(2)1,600	
Germany	116,500	217,300	50,200			
Italy		113,200	499,400			
South Africa		1,328,000	508,500			
Siberia						
Turkey	173,700					
Uruguay	164,500					
Other countries	500	139,000	†110,700	107,800		54,000
ALSIKE CLOVER						
COUNTRY	1923 Pounds	1924 Pounds	1925 Pounds	1926 Pounds	1927 Pounds	1928 Pounds
Canada	5,540,900	11,056,000	10,304,500	10,885,500	4,138,800	7,608,600
Czecho-Slovakia						
England				12,200		
Germany	2,600		48,800	42,300		
Other countries	22,600		72,000	49,400	24,400	
RAPE SEED						
COUNTRY	1923 Pounds	1924 Pounds	1925 Pounds	1926 Pounds	1927 Pounds	1928 Pounds
China	425,000					30,100
England	3,000	1,900	2,500	43,400	9,200	3,700
France	200,900	889,000	234,700	636,000	3,200	
Germany	22,000	65,900	99,500	735,300	149,400	83,700
Holland	1,100,300	4,918,500	2,587,300	3,043,000	3,582,700	4,616,700
Japan	4,610,400	127,000	1,381,000	1,406,500	2,998,100	1,703,300
Other countries	22,500	597,900	††39,600	†††662,100	44,900	300
HAIRY VETCH						
COUNTRY	1923 Pounds	1924 Pounds	1925 Pounds	1926 Pounds	1927 Pounds	1928 Pounds
Canada	7,900	700		70,700	48,400	6,100
Czecho-Slovakia	101,400	600,500	465,600	568,600	32,900	42,900
Denmark	96,900	47,600	71,900	65,000	21,800	52,300
England			32,200	35,200		
Germany	1,048,100	2,221,200	1,036,900	1,982,200	927,900	1,351,200
Holland	30,800	21,200		7,000	1,200	
Latvia	172,400	11,400	205,600	959,600	787,900	1,256,900
Poland						86,000
Sweden	14,500	18,800		76,300	107,600	43,900
Other countries	127,100	293,500	***256,100	†††221,600	†††196,200	1,055,900
ENGLISH RYEGRASS						
COUNTRY	1923 Pounds	1924 Pounds	1925 Pounds	1926 Pounds	1927 Pounds	1928 Pounds
Argentina						
Denmark		2,400		2,200		20,000
England	11,200	23,900	49,300	9,100	57,800	8,800
Ireland	976,000	1,586,600	824,900	1,823,700	578,500	624,000
New Zealand	648,000		281,600	210,700	378,600	340,200
Scotland	193,600	182,600	174,100	255,900	187,900	88,800
Other countries	5,300	156,100	5,000			1,000
CRIMSON CLOVER						
COUNTRY	1923 Pounds	1924 Pounds	1925 Pounds	1926 Pounds	1927 Pounds	1928 Pounds
Czecho-Slovakia	50,000	416,700				21,500
Denmark						
England	437,200	43,600	4,000	82,800	187,500	19,500
France	1,614,300	5,218,300	4,339,500	4,955,900	1,438,800	725,600
Germany	62,100	989,600	82,800	76,000	11,000	107,600
Italy				21,600		
Other countries	98,600	**1,076,300	407,700	†629,200	†††747,700	†471,900
ORCHARD GRASS						
COUNTRY	1923 Pounds	1924 Pounds	1925 Pounds	1926 Pounds	1927 Pounds	1928 Pounds
Canada	11,200	1,100				
Denmark	733,900	476,300	935,500	249,700	260,300	169,500
Germany	21,900	125,800	54,400			3,000
Holland			2,000	3,300		
Other countries	1,000	200				

*Of Turkestan origin. **376,700 lbs. from Austria and 495,500 lbs. from Hungary. †From Hungary.
 ††From Poland. ††† From Poland and Hungary. ***146,400 lbs. from Poland and 109,700 lbs. from
 Hungary. (1) American goods returned from Argentina. (2) American goods returned from France.
 (Table continued on opposite page)

FORAGE PLANT SEEDS PERMITTED ENTRY UNDER FEDERAL SEED ACT

(Continued from preceding page)

RED CLOVER						
COUNTRY	1923 Pounds	1924 Pounds	1925 Pounds	1926 Pounds	1927 Pounds	1928 Pounds
Argentina	.....	.....	.....	.....	.....	.....
Canada	5,100	333,100	151,900	288,000	63,100	3,300
Chile	12,200	778,700	232,600	85,200	.....	.....
Czecho-Slovakia	.....	264,700	45,300	.....	.....	††43,600
England	44,800	*3,999,000	**281,100	100	109,200	.....
France	169,800	17,610,300	4,932,600	18,889,600	10,406,500	462,300
Germany	84,000	126,200	432,600	389,900	.....	††††656,700
Holland	.....	.....	.....	11,000	.....	200,000
Italy	.....	999,400	151,100	33,000	.....	.....
Other countries	132,000	617,500	314,200	28,400	***237,300	****1,402,600
Poland	.....	.....	.....	.....	.....	1,872,300
CANADA BLUEGRASS						
Canada	1923 Pounds	1924 Pounds	1925 Pounds	1926 Pounds	1927 Pounds	1928 Pounds
Canada	835,700	816,900	1,149,700	283,000	881,700	1,101,900
BROOM-CORN MILLET						
China	1923 Pounds	1924 Pounds	1925 Pounds	1926 Pounds	1927 Broomcorn millet not subject to the Federal Seed Act unless for seeding pur- poses from May 26, 1926.	1928 Pounds
China	3,110,600	467,500	31,100	.....	.....	.....
England	114,100	.....	.....	.....	.....	.....
France	.....	.....	.....	.....	.....	.....
Germany	44,300	.....	.....	.....	.....	.....
Italy	.....	.....	22,000	72,700	.....	.....
Japan	1,068,900	.....	149,900	383,500	.....	.....
Morocco	478,400	110,200	.....	.....	.....	.....
Siberia	443,800	.....	.....	.....	.....	.....
Other countries	100,800	17,500	50,000	200	.....	.....
SPRING VETCH						
Canada	1923 Pounds	1924 Pounds	1925 Pounds	1926 Pounds	1927 Pounds	1928 Pounds
Canada	.....	600	1,000	118,000	13,200	.....
Denmark	17,600	.....	.....	.....	.....	.....
England	35,100	.....	.....	44,800	22,400	700
Germany	1,115,200	460,400	208,800	479,400	308,100	187,100
Holland	233,100	616,200	945,500	405,400	109,400	63,000
Latvia	315,300	99,000	111,000	549,700	356,900	19,800
Scotland	.....	800	.....	5,500	6,600	16,800
Other countries	141,800	32,600	.....	.....	175,500	54,800
Poland	.....	.....	.....	.....	.....	220,300
ITALIAN RYEGRASS						
Argentina	1923 Pounds	1924 Pounds	1925 Pounds	1926 Pounds	1927 Pounds	1928 Pounds
Argentina	140,100	100,900	137,100	43,100	.....	.....
Denmark	.....	77,200	17,600	176,700	230,900	72,000
England	1,600	.....	.....	37,000	1,300	.....
France	.....	.....	338,400	374,600	76,100	21,800
Holland	.....	.....	37,200	2,900	500	1,900
Ireland	284,100	373,300	198,400	972,800	372,400	167,400
New Zealand	262,000	10,100	.....	2,300	34,400	187,200
Scotland	28,900	65,700	102,600	73,800	117,600	5,400
Other countries	142,800	406,700	.....	.....	.....	200
WHITE CLOVER						
Czecho-Slovakia	1923 Pounds	1924 Pounds	1925 Pounds	1926 Pounds	1927 Pounds	1928 Pounds
Czecho-Slovakia	35,400	75,000	197,000	88,000	15,300	24,400
Denmark	55,000	59,400	14,200	5,500	11,700	.....
England	72,600	581,800	35,400	114,300	83,900	65,400
France	11,500	34,100	.....	7,700	.....	.....
Germany	174,300	320,000	661,600	743,100	448,700	629,400
Holland	.....	.....	22,000	44,400	.....	.....
Italy	.....	.....	.....	.....	.....	.....
New Zealand	60,800	60,700	4,400	.....	6,800	15,400
Other countries	110,000	276,500	292,700	663,400	408,300	66,400
Poland	.....	.....	.....	.....	.....	977,000
ALL OTHER FORAGE CROP SEEDS						
Canada	1923 Pounds	1924 Pounds	1925 Pounds	1926 Pounds	1927 Pounds	1928 Pounds
Canada	51,400	209,400	253,400	264,200	77,000	94,600
China	65,200	.....	.....	.....	.....	.....
Denmark	3,100	100	.....	2,200	7,600	100
Germany	.....	22,000	100	15,800	.....	.....
Scotland	200	.....	.....	.....	.....	.....
Other countries	76,800	27,600	5,000	11,200	99,100	200

*585,000 lbs. of this was of Chilean origin. **All of Chilean origin except 22,000 lbs. ***211,700 lbs. of this was from European Russia. ††Of Polish origin. †††From Poland, Hungary and Roumania. ****Of European Russian origin.

Tariff Rates Now in Effect

Approved by Senate and House Conferees, September 12, 1922

SEED AND BULB SCHEDULES

Title I. (Dutiable List)

Agricultural Seeds

Par. 722. Barley **** 20 cts. per bu. of 48 lbs.

Par. 723. Buckwheat ** 10 cts. per 100 lbs.

Par. 724. Corn or maize (including cracked corn) 15 cts. per bu. of 56 lbs. ***

Par. 726. Oats *** 15 cts. per bu. of 32 lbs.

Par. 727. Paddy or rough rice, 1 ct. per lb.

Par. 728. Rye, 15 cts., per bu. of 56 lbs.

Par. 729. Wheat, 42 cts. per bu. of 60 lbs.

Par. 760. Oil-bearing seeds and materials: Castor Beans, $\frac{1}{2}$ ct. per lb.; flaxseed, 40 cts. per bu. of 56 lbs.; poppy seed, 32 cts. per 100 lbs.; sunflower seeds, 2 cts. per lb.; **** soya beans, $\frac{1}{2}$ of 1 ct. per lb.; cotton seed, $\frac{1}{4}$ of 1 ct. per lb.

Par. 761. Grass seeds: Alfalfa, 4 cts. per lb.; alsike clover, 4 cts. per lb.; crimson clover, 1 ct. per lb.; red clover, 4 cts. per lb.; white clover, 3 cts. per lb.; clover not specially provided for, 2 cts. per lb.; millet, 1 ct. per lb.; timothy, 2 cts. per lb.; hairy vetch, 2 cts. per lb.; spring vetch, 1 ct. per lb.; all other grass seeds not specially provided for, 2 cts. per lb. Provided, that no allowance shall be made for dirt or other impurities in seed provided for in this paragraph.

Par. 1626. Oil-bearing seeds and nuts: Copra, hempseed, palm nuts, palmnut kernels, tung nuts, rapeseed, perilla and sesame seeds; seeds and nuts not specially provided for, when the oils derived therefrom are free of duty.

Memo.: In the opinion of the American Seed Trade Association counsel, Curtis Nye Smith, Esq., seedsmen should declare hempseed and all varieties of rapeseed under this Par. 1627, free of duty, and not under Pars. 761 or 762 of the Dutiable List (Title I).

Following are some of the important field and vegetable seeds showing a comparison between present import duties and those previously in force under the 1913 Tariff Act.

Alfalfa, 4, free; alsike clover, 4, free; crimson clover, 1, free; red clover, 4, free; white clover, 3, free; clover n. s. p. f., 2, free; millet,

Beet (except sugar), 4, 3; cabbage, 10, 6; canary, 1, $\frac{1}{2}$; cauliflower, 25, free; celery, 2, free; kale, 6, 6; kohlrabi, 8, 6; mangelwurzel, 4, free; mushroom spawn, 1, 1; onion, 15;

Castor beans, $\frac{1}{2}$, 3/10; * flaxseed, 40, 20; ** poppy, 32, 32; sunflower, 2, free; soya beans, $\frac{1}{2}$, free; cotton, $\frac{1}{2}$, free; rape, free, free;

*Per bushel; **per 100 pounds.

Vegetable, Flower, Other Field Seeds

Par. 762. Other garden and field seeds: Beet (except sugar beet), 4 cts. per lb.; cabbage, 10 cts. per lb.; canary, 1 ct. per lb.; carrot, 4 cts. per lb.; cauliflower, 25 cts. per lb.; celery, 2 cts. per lb.; kale, 6 cts. per lb.; kohlrabi, 8 cts. per lb.; mangelwurzel, 4 cts. per lb.; mushroom spawn, 1 ct. per lb.; onion, 15 cts. per lb.; parsley, 2 cts. per lb.; parsnip, 4 cts. per lb.; pepper, 15 cts. per lb.; radish, 4 cts. per lb.; spinach, 1 ct. per lb.; tree and shrub, 8 cts. per lb.; turnip, 4 cts. per lb.; rutabaga, 4 cts. per lb.; flower, 6 cts. per lb.; all other garden and field seeds not specially provided for, 6 cts. per lb. Provided, that the provisions for seeds in this schedule shall include such seeds whether used for planting or for other purposes.

Par. 763. Beans **** dried, $1\frac{1}{4}$ cts. per lb.

Par. 765. Lentils, $\frac{1}{2}$ of 1 ct. per lb.; lupines, $\frac{1}{2}$ of 1 ct. per lb.

Par. 767. Peas **** dried, 1 ct. per lb.

Rates on Bulbs

Par. 751. Tulip, lily and narcissus bulbs and lily of the valley pips, \$2 per thousand; hyacinth bulbs, \$4 per thousand; crocus bulbs, \$1 per thousand; all other bulbs and roots, root stocks, clumps, corms, tubers and herbaceous perennials, imported for horticultural purposes, 30 per centum ad valorem; cut flowers, fresh or preserved, 40 per centum ad valorem.

Title II. (Free List)

Par. 1657. Seeds: Chickpeas or garbanzos, cowpeas and sugar beets.

Sec. 304 (a). **** Every package containing any imported article, or articles, shall be marked, stamped, branded, or labeled in legible English words, so as to indicate clearly the country of origin.

Sec. 315. The President, under certain conditions, may until July 1, 1924, change classifications, increase or decrease duties.

COMPARISON WITH PREVIOUS RATES

Following are some of the important field and vegetable seeds showing a comparison between present import duties and those previously in force under the 1913 Tariff Act.

Field Seeds

1, free; timothy, 2, free; hairy vetch, 2, free; spring vetch, 1, free; all other grass seed, 2, free; sugar beet, free, free; rape, free, free.

Vegetable Seeds

parsley, 2, 3; parsnip, 4, 3; pepper, 15, 10; radish, 4, 3; spinach, 1, 1; turnip, 4, 3; rutabaga, 4, 3; flower, 6, free; all other vegetable and field seed not specially provided for, 6, 5.

Oil-Bearing Seeds

hempseed, free, free; sesame, free; peanuts (shelled), 4, $\frac{3}{4}$; peanuts (unshelled), 3, $\frac{3}{4}$.

Wholesale Field Seeds

Buyers

Clover
Alfalfa
Alsike
and
Timothy

Sellers

Henry Hirsch
& Sons

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WASHBURN WILSONSEED COMPANY

Growers
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SEED PEAS
SEED BEANS
SEED POTATOES

Our seed stocks are grown under the best climatic conditions for the development of strong healthy plants. We maintain growing centers in irrigated as well as non-irrigated sections. All of our seed stock selections are under the personal supervision of members of our firm.

"OUR SEEDS GROW FRIENDS"

Growing Contract Prices
Now Ready for 1929 Crop.

A small surplus of Seed
Peas for spot shipment.

Washburn-Wilson
Seed Co.

Moscow, Idaho

WHAT THE SEED VERIFICATION SERVICE MEANS

(Prepared by the Bureau of Agricultural Economics)



THE U. S. SEED Verification Service, or simply the Seed Verification Service, inaugurated in October, 1927, by the Bureau of Agricultural Economics of the U. S. Department of Agriculture, gives the buyer of alfalfa seed bearing a verified-origin seed certificate, issued under authority of the department, the proper assurance that such seed was produced where stated in the certificate.

All dealers enrolled in this Service, known as verified-origin alfalfa seed dealers, agree to obtain, so far as possible, proper assurances of origin of all lots of alfalfa purchased by them and to request verification of origin for all such lots. They also agree to keep prescribed stock records and samples, which, together with their stocks, are subject to the inspection of seed inspectors of this Bureau. Furthermore, these dealers are required to make applications for inspection certificates covering all lots which are to be verified, to submit weekly reports covering new lots of verified-origin seed prepared or offered for sale, and to comply with the rules and regulations of the Service. Forty-six dealers in 19 States, extending from New York to California and from Minnesota to Texas, have been enrolled for this season (ending June 30, 1929).

This Service is concerned only with origin of alfalfa seed; that is, locality of production, and not with variety, purity, germination, quality, grade, etc. In connection with the service no statements, expressed or implied, are to be made that the verified-origin seed certificate carries with it any verification other than that regarding the origin or locality of production and the identification of a particular lot.

The origin of every lot of seed covered by a verified-origin seed certificate may, through an examination by a Federal seed inspector of the records and samples of the verified-origin dealer offering such

seed, be traced back to the place where the seed was produced. Furthermore, these records will show what disposition is made of every pound of alfalfa seed handled by a verified-origin dealer, including non-verified as well as verified-origin lots.

Although verification this season is to be limited to alfalfa seed, the plan of the Service lends itself to verification of all kinds of seed—field, vegetable and flower. In fact, last season clovers and seed corn, as well as alfalfa were included in this Service and may be reinstated in the future if sufficient interest is manifested in the verification of origin of these seeds.

The Seed Verification Service is purely a voluntary one and there are no penalties other than the withdrawal of the privileges accorded dealers enrolled in it. Each verified-origin seed dealer understands, however, that if improper, unethical, deceptive, fraudulent, illegal, or unauthorized use is made in his advertising or otherwise of an inspection certificate or of a verified-origin seed certificate or of the service itself, he may be denied further benefits or use of this Service and that the privilege or authority to issue verified-origin seed certificates may be withdrawn.

The starting point in the evidence supporting the statement of origin is the grower's or shipper's declaration or an official state certificate of origin. The shipper in filling in a shipper's declaration declares that the lots described therein have been obtained directly from growers with proper declaration or other sufficient evidence as to locality of production, that the facts stated therein are correct to the best of his knowledge and belief, and that the locality of production and identity of each lot are properly covered in his records, which will be made accessible for verification by a Federal seed inspector at any time upon request.

With declarations at hand covering the various lots of seed for which verification is desired, the verified-origin dealer makes application to the nearest inspector for an inspection certificate, giving the kind of seed, name of shipper and shipping point, or declaration number covering the shipment, date of shipment, shipper's lot number or mark, the verified-origin dealer's receiving lot number, the quantity in pounds, place where the seed was grown, and kind of assurance of origin (declaration or verified-origin seed certificate of another verified-origin dealer) covering the shipment. This certificate is

91
 Successful
 Years
 1838
 to
 1929

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Extra Hardy, Field Inspected,
 Certified and Sealed by the
 Canadian Government.

Used extensively on Golf
 Courses and Fine Lawns.

**FARM AND GARDEN SEEDS
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Specialists in cars and mixed cars.
 UNHULLED AND FANCY REDTOP,
 KENTUCKY BLUEGRASS
 and all other grasses.



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The J. M. McCullough's Sons Co.

316 Walnut Street

CINCINNATI, OHIO

P. O. Box 845

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OUR SPECIALTY

KENTUCKY

Blue Grass

SELECTIONS OF
 CHOICE CROPS ENABLE US
 TO OFFER SEED OF
 THE HIGHEST QUALITY



**WOODFORD SPEARS & SONS
 PARIS, KENTUCKY**

in effect a transcript of the dealer's own record which may be examined at any time by a seed inspector. It entitles the verified-origin dealer to issue verified-origin seed certificates for all lots covered by it.

The verified-origin seed certificate is the recognized commercial document verifying the origin and identity of the seed which it covers. This certificate may be used in either of two forms; namely, as a tag certificate attached to a bag or other container, or as an invoice certificate mailed with shipping documents. The tag certificate gives, in addition to the name and address of the verified-origin seed dealer, the kind of seed, lot number, and where the seed was grown. It is attached securely to every bag in shipments made to purchasers who are not verified-origin seed dealers. The invoice form of verified-origin seed certificates will be used mainly in transactions between verified-origin dealers.

An emblem in the form of a shield with the words "Verified-Origin Seed" superimposed upon the letters "U S" and used in connection with the word "alfalfa" has been adopted for use by verified-origin dealers in letterheads, tags, circulars, catalogs, newspaper advertising, etc. This emblem will serve to identify these dealers from others who are not enrolled in the Seed Verification Service.

This service is conducted by virtue of the authority vested in the Secretary of Agriculture by the appropriation act for that department, to establish an inspection service for perishable products. This act, among other things, provides for fees that are reasonable and that cover as nearly as possible the cost of the Service. Accordingly, for seed listed in an inspection certificate a fee of 2 cents per 100 pounds is charged. The fee for a particular lot is payable by each of the verified-origin dealers handling it.

Applications for enrollment in the Service for each year ending June 30,

will be considered between July 1-September 1 of the preceding year. Hence, application for 1929 (i. e., season of 1929-30) will be considered July 1-September 1, 1929. Because of the difficulty in supervising a service in which would be enrolled many country shippers or dealers at more or less inaccessible points who handle small quantities of alfalfa seed for which the expense of supervision would frequently be as great as, if not greater than, that incurred in inspecting records of large handlers of this seed, enrollment in this service has been considered primarily for dealers doing an interstate business and handling large quantities of alfalfa seed grown in various states. Firms in producing districts who confine their purchases of this seed largely to that produced in their respective districts and firms in consuming districts who do almost entirely a local business, probably would not find it particularly advantageous to enroll in the Seed Verification Service. Many of these firms, however, will derive benefit indirectly from the service by selling to or buying from verified-origin seed dealers.

The Seed Verification Service is in part a voluntary agreement entered into between the department and qualified dealers who agree to comply with its provisions, rules and regulations in return for the privilege of issuing verified-origin seed certificates and of enjoying the benefits to be derived therefrom. The success of the service is dependent to a considerable extent upon the whole-hearted cooperation of these dealers. The department shares with them the responsibility for making a verified-origin seed certificate in effect a guarantee that the origin of the seed is as stated. The service is being supervised closely so that every one can feel confident that its provisions are being complied with fully. Inspectors for this Service are located at Washington, D. C.; Chicago, Minneapolis, Kansas City, Salt Lake City, and San Francisco.

READ SEED WORLD

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BLUE GRASS

MEADOW FESCUE

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Kansas City, Missouri

Morris Grain and Seed Co.

*Genuine Grundy
County*

SWEET CLOVER

and full line of

FIELD SEEDS

CAR LOTS OR LESS



Morris, Illinois

LOCATION OF SEED LABORATORIES

Many seedsmen use state and Government seed laboratories for the testing of their various lots of seeds, both for purity and germination. The following table lists the various state and Government seed laboratories in United States and Canada.

STATE	CITY	LOCATION
ALABAMA	Montgomery	Department of Agriculture
ARIZONA	Tucson	Agricultural Experiment Station
ARKANSAS	Fayetteville	Agricultural Experiment Station
CALIFORNIA	Sacramento	State Department of Agriculture
COLORADO	Fort Collins	Agricultural Experiment Station
CONNECTICUT	New Haven	Agricultural Experiment Station
DELAWARE	Dover	State Board of Agriculture
IDAHO	Boise	State Capital
INDIANA	Lafayette	Agricultural Experiment Station
ILLINOIS	Springfield	Department of Agriculture
IOWA	Ames	Agricultural Experiment Station
KANSAS	Manhattan	Agricultural Experiment Station
KENTUCKY	Lexington	Agricultural Experiment Station
LOUISIANA	Baton Rouge	State Board of Agriculture
MAINE	Orono	Agricultural Experiment Station
MARYLAND	College Park	Agricultural Experiment Station
MASSACHUSETTS	Amherst	Agricultural Experiment Station
MICHIGAN	Lansing	State Department of Agriculture
MINNESOTA	St. Paul	University Farm, Agri. Exp. Station
MISSISSIPPI	A. & M. College	Agricultural Experiment Station
MISSOURI	Columbia	Agricultural Experiment Station
MONTANA	Bozeman	Agricultural Experiment Station
NEBRASKA	Lincoln	Department of Agriculture
NEW JERSEY	New Brunswick	Agricultural Experiment Station
NEW HAMPSHIRE	Durham	Agricultural Experiment Station
NEW MEXICO	State College	Agricultural Experiment Station
NEW YORK	Geneva	Agricultural Experiment Station
NORTH CAROLINA	Raleigh	Department of Agriculture
NORTH DAKOTA	Agricultural College	Agricultural Experiment Station
OHIO	Columbus	Department of Agriculture
OKLAHOMA	Oklahoma City	Board of Agriculture
OREGON	Corvallis	Agricultural Experiment Station
PENNSYLVANIA	Harrisburg	Department of Agriculture
RHODE ISLAND	Kingston	Agricultural Experiment Station
SOUTH CAROLINA	Columbia	Department of Agriculture
SOUTH DAKOTA	Brookings	Agricultural Experiment Station
TENNESSEE	Nashville	State Department of Agriculture
TEXAS	Austin	State Department of Agriculture
UTAH	Salt Lake City	State Crops and Pests Commission
VERMONT	Burlington	Agricultural Experiment Station
VIRGINIA	Richmond	Department of Agriculture
WASHINGTON	Olympia	Department of Agriculture
WASHINGTON, D.C.*		Bureau of Plant Industry, U. S. Department of Agriculture
WEST VIRGINIA	Charleston	Exp. Station, Dept. of Agriculture
WISCONSIN	Madison	Department of Agriculture
WYOMING	Laramie	Agricultural Experiment Station
CANADA	Calgary	Seed Branch, Dept. of Agriculture
CANADA	Quebec	Seed Branch, Dept. of Agriculture
CANADA	Ottawa	Seed Branch, Dept. of Agriculture
CANADA	Winnipeg	Seed Branch, Dept. of Agriculture
CANADA	Toronto	Seed Branch, Dept. of Agriculture

*States not having laws regulating the sale of seeds. All other states have laws regulating the sale of seeds. Copies of the laws may be obtained by communicating with the various departments as indicated above.

DOMINION of CANADA

ALSIKE

ALFALFA

Canadian Variegated
Genuine Grimm

SWEET CLOVER

White Blossom
Yellow Blossom

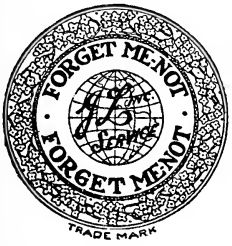
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ADDRESSES OF STATE AGRICULTURAL COLLEGES AND EXPERIMENT STATIONS

ALABAMA—Auburn, Ala.	NEBRASKA—Lincoln, Nebr.
ARIZONA—Tucson, Ariz.	NEVADA—Reno, Nev.
ARKANSAS—Fayetteville, Ark.	NEW HAMPSHIRE—Durham, N. H.
CALIFORNIA—Berkeley, Calif.	NEW JERSEY—New Brunswick, N. J.
COLORADO—Fort Collins, Colo.	NEW MEXICO—State College, N. M.
CONNECTICUT—New Haven, Conn.	NEW YORK—Ithaca, N. Y.
DELAWARE—Newark, Dela.	NORTH CAROLINA—State College Station, Raleigh, N. C.
FLORIDA—Gainesville, Fla.	NORTH DAKOTA—Fargo, N. D.
GEORGIA—Athens, Ga.	OHIO—Wooster, Ohio.
IDAHO—Moscow, Ida.	OKLAHOMA—Stillwater, Okla.
ILLINOIS—Urbana, Ill.	OREGON—Corvallis, Ore.
INDIANA—Lafayette, Ind.	PENNSYLVANIA—State College, Pa.
IOWA—Ames, Ia.	RHODE ISLAND—Kingston, R. I.
KANSAS—Manhattan, Kans.	SOUTH CAROLINA—Clemson College, S. C.
KENTUCKY, Lexington, Ky.	SOUTH DAKOTA—Brookings, S. D.
LOUISIANA—Baton Rouge, La.	TENNESSEE—Knoxville, Tenn.
MAINE—Orono, Me.	TEXAS—College Station, Tex.
MARYLAND—College Park, Md.	UTAH—Logan, Utah.
MASSACHUSETTS, Amherst, Mass.	VERMONT—Burlington, Vt.
MICHIGAN, East Lansing, Mich.	VIRGINIA—Blacksburg, Va.
MINNESOTA—University Farm, St. Paul, Minn.	WASHINGTON—Pullman, Wash.
MISSISSIPPI—A. and M. College, Miss.	WEST VIRGINIA—Morgantown, W. Va.
MISSOURI—Columbia, Mo.	WISCONSIN, Madison, Wis.
MONTANA—Bozeman, Mont.	WYOMING—Laramie, Wyo.

FIELD SEED PRODUCTION IN UNITED STATES FOR PAST FIVE YEARS

(Subject to Revision)

(Compiled by Hay, Feed & Seed Division, Bureau of Agricultural Economics,
U. S. Department of Agriculture)

Kind	Lbs. or		1923	1924	1925	1927	1928**
	Bu.						
Alfalfa	Lbs.	54,500,000	60,000,000	57,000,000	47,500,000	28,000,000	
Clover, alsike	Lbs.	16,800,000	16,500,000	17,000,000	22,500,000	13,500,000	
Clover, red	Lbs.	38,000,000	44,000,000	40,000,000	75,000,000	56,000,000	
Clover, white	Lbs.	800,000	1,300,000	1,500,000	1,700,000	1,200,000	
Clover, crimson	Lbs.	300,000	300,000	175,000	300,000	350,000	
Bluegrass, Ky.	Bus.	775,000	535,000	2,000,000	1,800,000	325,000	
Meadow Fescue*	Lbs.	2,100,000	1,750,000	1,300,000	2,500,000	1,300,000	
Orchard Grass	Bus.	160,000	130,000	400,000	195,000	225,000	
Redtop*	Lbs.	10,500,000	6,000,000	8,300,000	18,000,000	14,250,000	
Sudan Grass	Lbs.	24,000,000	28,000,000	25,000,000	37,000,000	33,000,000	
Timothy	Lbs.	90,000,000	80,000,000	87,000,000	96,000,000	55,000,000	

*Recleaned seed.

**Preliminary figures subject to revision.

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Feeding Beets, Mangels, Swede Turnips

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Beans—Field and Garden

Peas—Field and Garden

Sweet Clover, White Blossom

Onion Sets, Shallot and Potato

Alfalfa Clover

Blue Grass

Hairy Vetch

Red Clover

Onions

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Members American & Canadian Seed Trade Associations

" Farm Seed Association of North America

John A. Bruce & Co., Limited

HAMILTON, CANADA

WEIGHT AND MEASURE EQUIVALENTS

- 1 Milligram (mg.) = 0.1 centigram = 0.015,432 grain = 0.001 gram.
- 1 Centigram (cg.) = 10 milligrams = 0.154,324 grain = 0.01 gram.
- 1 Decigram (dg.) = 1.543,24 grains = 0.1 gram.
- 1 Gram (g.) = 1,000 milligrams = 100 centigrams = 15.432,356 grains = 0.035,274 ounce (Avd.) = 0.032,150 ounce (Troy) = 0.002,204 pound (Avd.) = 0.001 kilogram.
- 1 Kilogram or Kilo (kg.) = 15,432.356,39 grains = 1,000 grams = 35.2740 ounces (Avd.) = 32.150,7 ounces (Troy) = 2.204,62 pounds (Avd.).
- 1 Grain (gr.) (same in Avoirdupois, Troy or Apothecary weights) = 64.798 milligrams = 6.479 centigrams = 0.064,798 gram = 0.002,285 ounce (Avd.).
- 1 Ounce (oz.) (Avd.) = 2,834.95 centigrams = 437.500 grains = 28.349,5 grams = 16 drams (Avd.) = 0.911,458 ounce (Troy) = 0.062,500 pounds (Avd.) = 0.028,349 kilogram.
- 1 Pound (lb.) (Avd.) = 7,000 grains = 453.592,427 grams = 256 drams (Avd.) = 16 ounces (Avd.) = 14.583,3 ounces (Troy) = 0.453,592 kilogram.
- 1 carat (diamond) = 200 milligrams. 1 carat (diamond) = 4 pearl grains.
- 1 pennyweight (dwt.) (Troy) = 24 grains = 1.555,17 grams = $\frac{1}{20}$ ounce (Troy or Apoth.). 1 gram = 0.643,015 pennyweight.
- 1 scruple (Apoth.) = 20 grains = 1.295,978 grams = $\frac{1}{3}$ dram (Apoth.) = $\frac{1}{24}$ ounce Troy or Apoth.). 1 gram = 0.771,618 scruple.
- 1 dram (Avd.) = $27\frac{1}{2}$ or 27.343,75 grains = 1.771,85 grams = 0.455,729 drams (Apoth.) = $\frac{1}{16}$ ounce (Avd.). 1 gram = 0.564,383 dram (Avd.).
- 1 dram (Apoth.) = 60 grains = 3.887,934 grams = 3 scruples = 2.194,29 drams (Avd.) = $\frac{1}{8}$ ounce (Apoth.). 1 gram = 0.257,206 dram (Apoth.).
- 1 ounce (oz.) (Troy) = 480 grains = 31.103,5 grams = 20 pennyweights = 1.097,14 ounces (Avd.) = 1 ounce (Apoth.) = $\frac{1}{2}$ or 0.083,333 pound (Troy or Apoth.) = 0.068,571 pound (Avd.). 1 gram = 0.032,150 ounce (Troy). 1 ounce (Avd.) = 0.911,458 ounce (Troy). 1 pound (Avd.) = 14.583,3 ounces (Troy). 1 kilogram = 32.150,7 ounces (Troy).
- 1 ounce (Apoth.) = 480 grains = 31.103,5 grams = 24 scruples = 8 drams (Apoth.) = 1.097,14 ounces (Avd.) = 1 ounce (Troy) = $\frac{1}{2}$ or 0.083,333 pound (Apoth. or Troy) = 0.068,571 pound (Avd.).
- 1 gram = 0.032,150,7 ounce (Apoth.). 1 ounce (Avd.) = 0.911,458 ounce (Apoth.). 1 pound (Avd.) = 14.583,3 ounces (Apoth.). 1 kilogram = 32.150,7 ounces (Apoth.).
- 1 meter = 39.370,00 inches 1 inch = 25.400,05 millimeters 1 foot = 304.801 millimeters
 1 meter = 3.280,83 feet 1 inch = 2.540,005 centimeters 1 foot = 30.480,1 centimeters
 1 meter = 1.093,61 yards 1 inch = .025,400,05 meters 1 foot = .304,801 meter

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seeds?



Fertilizers, Garden Tools, Sprayers,
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CHARACTERISTICS OF FIELD SEEDS

VARIETY	Viability of Good Seed	Purity of Good Seed	Average Germination One Year Old	Average Length of Vitality Years	Weight of Seed Per Bu. Legal	Weight of Seed Per Bu. Actual	Quantity Required Per Acre	Yield of Seed Per Acre	Number of Seeds Per Pound Average
Alfalfa	97-99	98-99	94	6-8	60	60-63	15-20	300-700	220,000
Bluegrass, Kentucky.....	70-85	75-85	30-40	1-2	14	14-28	20-30	200-350	2,400,000
Bluegrass, Canada.....	85	75-85	30-40	1-2	14	14-24	15	200-500	2,400,000
Brome Grass.....	90-95	98-99	85-90	5	14	12-20	10-14	250-350	137,000
Clover, Alsike.....	99	99	75	2	60	60-66	8-12	100-300	700,000
Clover, Red.....	99	99	90	5-6	60	60-63	8-12	100-300	250,000
Clover, White.....	99	98	75	2	60	60-63	8-12	200-300	700,000
Clover, Crimson.....	99	99	90	2	60	60-63	12-20	200-300	125,000
Clover, Sweet.....	95-98	99	90-95	5	.....	.....	20-30	150-400	235,000
Cowpea	90	99	80	2	60	Variable	30-60	900-1800	1,800-5,100
Fescue, Meadow.....	95	90	93	2	.....	20-30	10-15	200-300	250,000
Millet, Foxtail (Common, Golden, Hungarian, Siberian).....	90	98	88	4	48-50	40-55	25-50	.....	200,000
Orchard Grass.....	98	97	90	2-3	14	12-22	12-20	140-168	400,000
Rape	95	99	90	6	.....	.....	2-4	600-1000	.....
Redtop	95	95-98	.....	6	14	12-40	10-20	.....	4,135,900
Rye Grass, Perennial.....	95	98	80	2	.....	10-30	25-35	250-500	336,000
Rye Grass, Italian.....	95	98	80	2	20	12-24	35-40	500	285,000
Soy Bean.....	98	99	90	2	60	60	20-30	1000-2400	2144-6388
Timothy	98	98	95	5-6	45	42-50	9-15	225-450	1,170,500
Vetch	95	99	90	3	60	60	40-90	600-720	8,500-16,000

RUSSIAN AND UKRAINIAN SUGAR BEET SEEDS

(Kleinwanzleben Type)

Exceptionally high sugar yields per acre. Absolutely guaranteed as to purity, germination and freedom from all foreign seeds. All seeds grown and packed under supervision of

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We also represent several other seed breeding organizations in Soviet Union, and are ready to submit samples and prices on the following seeds:

Ukrainian Red Clover
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Selected Seed Grains
Vegetable and Fruit Tree Seeds

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165 Broadway

New York City

COMMODITIES FOR WHICH BUSHEL WEIGHTS HAVE BEEN ESTABLISHED IN MORE THAN FOUR STATES

Kind	Commonly Accepted Weight per Bu.—Lbs.	
Alfalfa	60	
Barley	48	50 lbs. in California. 32 lbs. in Louisiana.
Beans	60	
Beans, Castor	46	50 lbs. in Iowa, Maryland, Nebraska and South Dakota. 48 lbs. in Florida.
Beans, Lima	56	
Beans, Soy	58	60 lbs. in North Carolina and Virginia.
Bluegrass	14	
Bran	20	
Bromegrass	14	
Broomcorn	50	42 lbs. in Alabama, South Carolina and Tennessee. 48 lbs. in Arkansas, Illinois, Oklahoma and Texas. 30 lbs. in Kansas and North Dakota. 57 lbs. in Minnesota and West Virginia. 44 lbs. in North Carolina. 45 lbs. in Ohio.
Buckwheat	48	50 lbs. in Alabama, Idaho, Minnesota, Nebraska, Nevada, North Carolina, Ohio, South Carolina, Tennessee and Wisconsin. 52 lbs. in Arkansas, Georgia, Illinois, Missouri, Montana, New Mexico, Oklahoma and Texas. 40 lbs. in California. 56 lbs. in Kentucky. 42 lbs. in North Dakota.
Canary Seed	60	
Clover Seed	60	
Corn, Cracked ...	50	
Corn, in Ear.....	70	68 lbs. in Ohio and West Virginia.
Corn, Pop, in Ear..	70	42 lbs. in Ohio.
Corn, Shelled	56	52 lbs. in California.
Corn, Sweet	50	48 lbs. in Minnesota and North Dakota. 45 lbs. in Ohio.
Cornmeal	50	48 lbs. in Arkansas, Florida, Idaho, Illinois, Iowa, Maryland, Mississippi, Nebraska, Nevada, Ohio, Virginia and West Virginia.
Cottonseed	32	30 lbs. in Georgia, North Carolina, South Carolina and Virginia. 33½ lbs. in Arkansas. 33 lbs. in Missouri. 28 lbs. in Tennessee.
Emmer	40	48 lbs. in Nebraska. 45 lbs. in Wyoming.
Flaxseed	56	
Hempseed	44	50 lbs. in Minnesota and North Dakota. 48 lbs. in Nevada.
Herdsgrass	45	
Kafir Corn	56	50 lbs. in North Carolina and Texas.
Kale	12	10 lbs. in North Carolina. 15 lbs. in South Carolina. 30 lbs. in Tennessee.
Millet	50	48 lbs. in Minnesota.
Millet, Jap.	35	
Oats	32	
Orchard Grass ...	14	
Peanuts	22	25 lbs. in Georgia. 20 lbs. in Illinois, Maine, New Hampshire, South Dakota and Vermont. 24 lbs. in Kentucky and Mississippi. 23 lbs. in South Carolina and West Virginia.
Peas	60	
Potatoes, Irish ..	60	56 lbs. in West Virginia.
Potatoes, Sweet ..	50	55 lbs. in Alabama, Georgia, Kentucky, Minnesota and Oklahoma. 54 lbs. in Connecticut, Maine, Mississippi, New Hampshire, New York, Pennsylvania, Rhode Island, South Dakota, Vermont and Wisconsin. 56 lbs. in Florida, Michigan, Missouri, North Carolina and Virginia.
Rape Seed	50	
Red Top	14	
Rice (unhulled)...	45	44 lbs. in Maine, North Carolina and South Carolina. 43 lbs. in Georgia.
Rye	56	45 lbs. in California.
Sorghum	50	57 lbs. in Minnesota, North Dakota and West Virginia. 56 lbs. in Florida. 42 lbs. in Mississippi and Missouri.
Speltz	40	48 lbs. in Nebraska. 45 lbs. in Wyoming.
Timothy	45	60 lbs. in Arkansas.
Wheat	60	

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MOBILE ALABAMA

DIRECTORY SECTION

(See Index on pages 5 and 6.)

On the following pages are given the names and addresses of seed growers, wholesalers of both field and garden seeds. For manufacturers of store and warehouse supplies, and merchandise for resale purposes, etc., see pages 128 and 164.

By this method of classification it is easy to locate the growers or wholesalers in any particular state or section of the country and the manufacturer or distributor of anything used by the seed dealer in the conduct of his own business or sold to his patrons.

Every effort has been made, in compiling this directory, to make it as complete as possible. The names and the lines handled were supplied by the firms listed in response to a general invitation to the trade.

The publication of this book has been made possible by the support and co-operation of the firms listed in black face type and whose advertising appears on the pages as indicated by the numbers following their names.

WHOLESALE FIELD SEEDS

ALABAMA

- Buchanan Feed & Seed Co.,
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Poyner Seed Co.
Dothan, Ala.
Florence Seed & Feed Co.
Florence, Ala.
North Alabama Seed Co.
Florence, Ala.
Wind & Co., L.
Huntsville, Ala.
Van Antwerp Seed Store
Mobile, Ala.
(See Adv. Index Page 178)
Hawthorne-Jones Co., Inc.
Montgomery, Ala.
Callen, Geo. M.
Selma, Ala.

ARIZONA

- Capital Fuel & Feed Co.
Phoenix, Ariz.
Liefgreen Seed Co.
Phoenix, Ariz.
Quick Seed & Feed Co.
Phoenix, Ariz.
Alfalfa Seed Co.
Yuma, Ariz.
Pawley, A.
Yuma, Ariz.
Sanguinetti, E. F.
Yuma, Ariz.
Turner, Leo
Yuma, Ariz.

ARKANSAS

- Fort Smith Seed Co., Inc.
Fort Smith, Ark.
Lee, Arthur G.
Fort Smith, Ark.

CALIFORNIA

- Aggeler & Musser Seed Co.
Los Angeles, Cal.
(See Adv. Index Page 178)
Germain Seed & Plant Co.
Los Angeles, Cal.
(See Adv. Index Page 178)
Bomberger Seed Co.
Modesto, Cal.

- Ward Seed Co., Wm. A.
Sacramento, Cal.
(See Adv. Index Page 178)
Sevin-Vincent Seed Co.
San Francisco, Cal.
Volkmann & Co., C. M.
San Francisco, Cal.

CANADA

- McKenzie Co., Ltd., A. E.
Brandon, Man., Canada
Hunter & Co., A. S.
Durham, Ont., Canada
Bruce & Co., Ltd., John A.
Hamilton, Ont., Canada
(See Adv. Index Page 178)
McDonald & Sons, Ltd., Kenneth
Ottawa, Ont., Canada
Canada Seed Co., Ltd., The
Toronto, Ont., Canada
Goodall, Ltd., James
Toronto, Canada
Hogg & Lytle, Ltd.
Toronto, Ont., Canada
Keith & Sons, Geo.
Toronto, Canada
Morrow Seed Co., Ltd.
Toronto, Ont., Canada
(See Adv. Index Page 178)
Rennie Co., Wm., Ltd.
Toronto, Canada
Steele, Briggs Seed Co., Ltd.
Toronto, Canada
(See Adv. Index Page 178)
Webb & Sons, Ltd., Edward
Toronto, Canada
(See Adv. Index Page 178)

COLORADO

- Barteldes Seed Co.
Denver, Colo.
Western Seed Co.
Denver, Colo.
Grand Junction Seed Co.
Grand Junction, Colo.
(See Adv. Index Page 178)
Strain Bros.
Lamar, Colo.
James, R. H.
Rocky Ford, Colo.

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Chamberlain & Son
Hartford, Conn.
Platt Co., Inc., The Frank S.
New Haven, Conn.
Comstock, Ferre & Co.
Wethersfield, Conn.
(See Adv. Index Page 178)

DIST. OF COLUMBIA

Bogliano & Co., F. W.
Washington, D. C.

GEORGIA

Planters Seed Co.
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Cofer & Co., H. L.
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The Rowland Co.
Athens, Ga.
Snelson Seed Co.
Athens, Ga.
Everett Seed Co.
Atlanta, Ga.
Heard, Geo. (Cowpeas)
Atlanta, Ga.
Walton & Co.
Augusta, Ga.
Rhodes Seed Co. (Cowpeas)
Forsythe, Ga.
Settle & Robison (Cowpeas)
Jackson, Ga.
Arrington, H. H.—Pearl Millet
Rome, Ga.
Curry-Arrington Co.
Rome, Ga.

IDAHO

Idaho Grimm Alfalfa Seed Growers Assn.

Blackfoot, Idaho
(See Adv. Index Page 178)

Central Coal & Seed Co. —
Boise, Idaho
Union Seed & Fuel Co.
Boise, Idaho
Buhl Seed & Grain Co. —
Buhl, Idaho
Pioneer Seed & Grain Co.
Burley, Idaho
Caldwell Produce Co. +
Caldwell, Idaho
Lilly Seed Co. —
Caldwell, Idaho
Jerome Milling & Elevator Co.
Jerome, Idaho
Means, Mark
Lewiston, Idaho
Vollmer Clearwater Co.
Lewiston, Idaho
Washburn-Wilson Seed Co.
Moscow, Idaho
(See Adv. Index Page 178)
Darrow Bros. Seed & Supply Co. —
Twin Falls, Idaho
Wendel Milling & Elev. Co.
Wendel, Idaho

ILLINOIS

Funk Bros. Seed Co.
Bloomington, Ill.
Vollbracht Co., Wm.
Camp Point, Ill.

American Field Seed Company
Chicago, Ill.
Dickinson Co., Albert
Chicago, Ill.
Hales & Hunter Co.
Chicago, Ill.
Kellogg Seed Co., John L.
Chicago, Ill.
(See Adv. Index Page 178)
Johnson, Inc., J. Oliver
Chicago, Ill.
Maulding & Co., C. A.—(Redtop)
Dahlgren, Ill.
Schultz, J. M.
Dieterich, Ill.
Keith & Son, L. J.—(Redtop)
Fairfield, Ill.
Poorman & Co., A. J.
Fairfield, Ill.
Egyptian Seed Growers Exchange—
(Redtop)
Flora, Ill.
Noble Bros.
Gibson City, Ill.
Morris Grain & Seed Co.
Morris, Ill.
(See Adv. Index Page 178)
Olney Seed & Feed Store
Olney, Ill.
Shultz Seed Co.
Olney, Ill.
Kelly Seed Co.
Peoria, Ill.
Keller & Sons, Geo.
Quincy, Ill.
Quincy Seed Co.
Quincy, Ill.
Condon Bros.
Rockford, Ill.
(See Adv. Index Page 178)
Wayne City Seed Co.—(Redtop and Sun-
flower)
Wayne City, Ill.

INDIANA

Studebaker Grain & Seed Co.
Bluffton, Ind.
Crabbs, Reynolds, Taylor Co.
Crawfordsville, Ind.
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Seberger Seed Co.
Crown Point, Ind.
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(Page 179)

and you will convince them that it was worth the effort.

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completely cov-
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Paper. More
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tain planters were waiting to cover acres of land with it.

The result of the restricted sales policy, however, was that thousands instead of a mere handful of planters were able to experiment with the paper and see for themselves just what miracles it works in stimulating plant growth.

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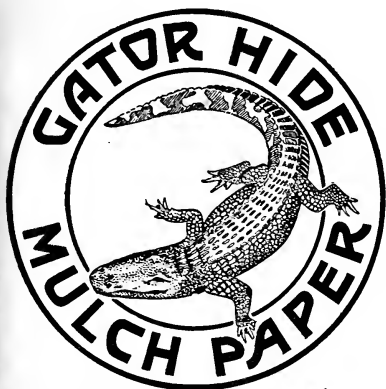
GATOR-HIDE

The MIRACLE PAPER - THAT PRODUCES

offer Gator-Hide Mulch Paper in unlimited quantities, and distributorships are being established throughout the country.

Extensive Advertising in 1929

The Gator-Hide Mulch Paper Advertising Campaign for 1929 embraces a representative group of farm and garden publications and includes extensive sales promotion work through County Fairs, Motion Picture Films, etc. It is a campaign so broad in its scope that, coupled with the existing demand for Mulch Paper, it is certain to produce a profitable business for everyone engaged in handling Gator-Hide.



This paper is completely covered by the Eckart Patents under which the International Paper Company has the rights for production and sale in the 37 states east of Colorado.



Write for Dealer Proposition

If you are interested, write us at once for full particulars. The opening gun in the 1929 advertising campaign will be fired one month before 1929 dawns—in the December issues of the farm magazines.

Gator-Hide Mulch Paper should be listed in all catalogues. Write for electros or mats.

INTERNATIONAL PAPER CO.

Dept. S2, Mulch Paper Division

Pershing Square Building

Park Ave. and 42nd St., New York City

What Gator-Hide Mulch Paper Is

GATOR-HIDE MULCH PAPER is an extremely tough Kraft Paper impregnated by a special process with asphalt. Its manufacture and sale by International Paper Company are completely covered by the Eckart Patents.

The paper, in use, is laid directly over the prepared plant beds and planting is accomplished either through holes made in the paper or between successive rows of the paper.

The value of Mulch Paper lies in the fact that it increases the temperature of the soil, retards evaporation of moisture by the sun, and practically eliminates all weeding.

\$500,000 is invested in Paper Mulch annually in Hawaii for pineapple cultivation, and the resulting increase in yield has been estimated at 30%. In this country increases on crop yields have varied from 73% to more than 600%.

MULCH PAPER

BIGGER, BETTER AND EARLIER CROPS

WHOLESALE FIELD SEEDS—Continued

IOWA

- Haley-Neeley Co.
Carroll, Iowa
(See Adv. Index Page 178)
- Hamilton Seed & Coal Co.
Cedar Rapids, Iowa
(See Adv. Index Page 178)
- Council Bluffs Seed Co.—Seed Corn
Council Bluffs, Iowa
- Ouren Seed Co.
Council Bluffs, Iowa
(See Adv. Index Page 178)
- Younkerman Seed Co.
Council Bluffs, Iowa
- Davenport Seed Co.
Davenport, Ia.
(See Adv. Index Page 178)
- Standard Seed Co.
Des Moines, Iowa
- Todd & Kraft Co.
Des Moines, Iowa
- Nishna Valley Seed Co. (Seed Corn)
Shenandoah, Iowa
(See Adv. Index Page 178)
- Bruns Seed & Grain House
Sigourney, Iowa
- Haley-Neeley Co.
Sioux City, Iowa
(See Adv. Index Page 178)
- Sloux City Seed Co.
Sioux City, Iowa
(See Adv. Index Page 178)
- Wertz Seed Co.
Sioux City, Ia.
(See Adv. Index Page 178)

KANSAS

- Mangelsdorf Seed Co.
Atchison, Kan.
- Bowman Seed Co.
Concordia, Kan.
(See Adv. Index Page 178)
- Barteldes Seed Co.
Lawrence, Kan.
- Salina Produce Co.
Salina, Kan.
(See Adv. Index Page 178)
- Sedgwick Alfalfa Mills
Sedgwick, Kan.
(See Adv. Index Page 178)
- Coe Seed & Grain Co., D. O.
Topeka, Kan.
(See Adv. Index Page 178)
- Ross Bros. Seed Co.
Wichita, Kan.

KENTUCKY

- Brent Seed Co., The C. S.
Lexington, Ky.
- Lexington Seed Co.
Lexington, Ky.
- Chambers Seed Co.
Louisville, Ky.
- Hall Seed Co.
Louisville, Ky.
(See Adv. Index Page 178)
- Hardin, Hamilton & Lewman
Louisville, Ky.
- Lewis Implement & Seed Co.
Louisville, Ky.
- Louisville Seed Co.
Louisville, Ky.
- National Seed Co.
Louisville, Ky.

- Ross Seed Co.
Louisville, Ky.
- Watts & Son, John R.
Louisville, Ky.
- Wood, Stubbs & Co.
Louisville, Ky.
- Brent & Co., Inc.
Paris, Ky.
- Spears & Sons, Woodford
Paris, Ky.
(See Adv. Index Page 178)
- Spears-Kiser Co.
Paris, Ky.
(See Adv. Index Page 178)
- Wilson, Jas. S.
Paris, Ky.
(See Adv. Index Page 178)

LOUISIANA

- Lehmann's Seed Store
Baton Rouge, La.
- Reuter Seed Co.
New Orleans, La.
- Steckler Seed Co., Inc., J.
New Orleans, La.
- Idlewild Dairy Farm, The (White Clover)
Patterson, La.

MARYLAND

- Baltimore Seed & Feed Co.
Baltimore, Md.
- Belt Seed Co.
Baltimore, Md.
- Blamberg Bros., Inc.
Baltimore, Md.
(See Adv. Index Page 178)
- Bolgiano Seed Co., J.
Baltimore, Md.
- Scarlett & Co., Wm. G.
Baltimore, Md.

MASSACHUSETTS

- Breck & Sons Corp., Jos.
Boston, Mass.
- Dickinson Co., The Albert
Boston, Mass.
- Emerson Co., Thos. W.
Boston, Mass.
- Grey Co., Thos. J.
Boston, Mass.
- Cobb, F. W.
Franklin, Mass.
- Buck & Co., E. A.
Palmer, Mass.
- Ross Bros. Co.
Worcester, Mass.

MICHIGAN

- King & Sons, H. C.
Battle Creek, Mich.
(See Adv. Index Page 178)
- Detroit International Sales Co.
Detroit, Mich.
- Burroughs & Son, J. P.
Flint, Mich.
- Isbell Seed Co.
Jackson, Mich.
(See Adv. Index Page 178)
- McLaughlin Ward & Co.
Jackson, Mich.
- Chatterton & Sons (Rosen Rye)
Lansing, Mich.
- Young Seed Co., Geo. W.
Owosso, Mich.

MORE THAN FOUR MILLION BUYERS

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poultry supplies and various accessories, are patrons of
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MAMMOTH CLOVER · WINTER VETCH
Car Lots or Less

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Wholesale Field Seeds

TIMOTHY — RED CLOVER — ALSIKE
SWEET CLOVER — ALFALFA — SUDAN

Carlots or Less — We Buy and Sell

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BLAMBERG BROTHERS, Inc.
GARDEN AND FIELD SEEDS



Importers, Wholesalers and Growers

BALTIMORE - - - - MARYLAND

Field Seeds

Poultry Feeds

Grass Seeds

Dog Feeds

D. O. COE SEED & GRAIN CO.

(SINCE 1902)

119 E. 6th

Topeka, Kan.

WHOLESALE FIELD SEEDS—Continued

MINNESOTA

- Lyman, A. B. (Grimm Alfalfa)
Excelsior, Minn.
Farmer Seed & Nursery Co.
Faribault, Minn.
(See Adv. Index Page 178)
- Dickinson Co., The Albert
Minneapolis, Minn.
- Minneapolis Seed Co.**
Minneapolis, Minn.
(See Adv. Index Page 178)
- Northrup, King & Co.**
Minneapolis, Minn.
(See Adv. Index Page 178)
- Stuhr-Seidl Co.—Seed Oats
Minneapolis, Minn.
- Interstate Seed & Grain Co.**
Moorehead, Minn.
(See Adv. Index Page 178)
- Olsen Co., N. J.
Moorhead, Minn.
- Cashman Seed Co.
Owatonna, Minn.
- Jameson-Hevener Co.
St. Paul, Minn.
- Waconia Sorghum Mills, Inc.—Sorghum**
Waconia, Minn.
(See Adv. Index Page 178)
- Peterson-Biddick Co.
Wadena, Minn.
- Northern Field Seed Co.
Winona, Minn.

MISSISSIPPI

- Rose Seed Co.
Clarksdale, Miss.
- McInnis District Co.
Meridian, Miss.
- Adams, J. B.
Pass Christian, Miss.
- Vicksburg Seed Co.
Vicksburg, Miss.
- Williams Co., P. P.
Vicksburg, Miss.

MISSOURI

- Peppard Seed Co., J. G.**
Kansas City, Mo.
(See Adv. Index Page 178)
- Rudy-Patrick Seed Co.**
Kansas City, Mo.
(See Adv. Index Page 178)
- Chesmore Seed Co.
St. Joseph, Mo.
- Kellogg-Kelly Seed Co.
St. Joseph, Mo.
- Mitchelhill Seed Co.
St. Joseph, Mo.
- Bushnell & Co., D. I.
St. Louis, Mo.
- Cornell Seed Co.**
St. Louis, Mo.
(See Adv. Index Page 178)
- Kaercher Seed & Supply Co.
St. Louis, Mo.
- Mangelsdorf & Bro., Ed. F.**
St. Louis, Mo.
(See Adv. Index Page 178)
- Plant Seed Co.
St. Louis, Mo.
- Prunty Seed & Grain Co.
St. Louis, Mo.
- Springfield Seed Co.
Springfield, Mo.
- Wood-Beazley Seed Co.
Springfield, Mo.

MONTANA

- Northern Montana Alfalfa Growers' Assn
Glasgow, Mont.
- Barkemeyer Grain & Seed Co. —
Great Falls, Mont.
- Snell Bros. (Grimm Alfalfa)
Miles City, Mont.

NEBRASKA

- Gilmore, E. L. C. (Seed Corn)
Ashland, Neb.
- Pease Grain & Seed Co.
Beatrice, Neb.
- Sonderegger Seed & Nursery House
Beatrice, Neb.
- Aye Bros.
Blair, Neb.
- Platte Valley Seed Co.
Grand Island, Neb.
- Lawson Hardware Co., C. K.
Hastings, Neb.
- Patterson & Co.
Kearney, Neb.
- Griswold Seed & Nursery Co.**
Lincoln, Neb.
(See Adv. Index Page 178)
- Gunn Seed Co.
Lincoln, Neb.
- Haley-Neeley Co.**
Norfolk, Neb.
(See Adv. Index Page 178)
- Nebraska Seed Co.
Omaha, Neb.
- Ranney Seed Co., C. A.
Omaha, Neb.

NEW HAMPSHIRE

- Holbrook Groc. Co.
Keene, N. H.
- Varick Co., Jno. B.
Manchester, N. H.

NEW JERSEY

- Riverview Farms
Bridgeton, N. J.
- Doughten Seed Co., The
Jersey City, N. J.

NEW MEXICO

- Patterson Seed Co.
Clovis, N. Mex.
- Mitchell, E. W.
Roswell, N. Mex.

NEW YORK

- Barber & Bennett, Inc.
Albany, N. Y.
- Hickox-Rumsey Co., Inc.
Batavia, N. Y.
- Conklin & Son, E. W.
Binghamton, N. Y.
- Smith-Conklin Co.
Binghamton, N. Y.
- Danish Seed Growers Sales Co., Inc.**
Brooklyn, N. Y.
(See Adv. Index Page 178)
- Craver-Dickinson Seed Co.
Buffalo, N. Y.
- Dickinson Co., The Albert
Buffalo, N. Y.
- Harvey Seed Co.**
Buffalo, N. Y.
(See Adv. Index Page 178)

**Patronize those who made it possible to publish
this Directory.**

See Advertisers' Index on page 178.

M Brand Seeds Are
Selected for
Purity, Germination
Adaptability
Known
Origin



Alfalfa, Clovers,
Timothy, Redtop,
Grasses, Soy-
beans, Cowpeas,
Sudan, Cane,
Millets, Sun-
flower, Grains
and other Seeds

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LOTS
OR
LESS

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EXPORTERS

Wholesale Field Seeds

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NORTHERN GROWN**

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ALSIKE
TIMOTHY
SEED GRAIN
POULTRY
MILLET

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SEED CO.**
MINNEAPOLIS, MINN.

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Sweet Clover
Alfalfa
Cane
Millet

Ask for Samples
and Prices

Carloads or Less

**Griswold Seed
and Nursery Co.**
Lincoln, Nebr.

Wholesale Seeds

Buyers and Sellers

FIELD SEEDS
GARDEN SEED
FODDER CROPS
and
SPECIALTIES



**CORNELI
SEED COMPANY**
St. Louis

WHOLESALE FIELD SEEDS—Continued

- Stanford Seed Co.
Buffalo, N. Y.
- Whitney-Eckstein Seed Co.
Buffalo, N. Y.
- Whitney-Noyes Co.
Buffalo, N. Y.
- Pierpont & Smith
Cassadaga, N. Y.
- Forrest Seed Co., Inc.**
Cortland, N. Y.
(See Adv. Index Page 178)
- Burt Co., William D.
Dalton, N. Y.
- Page Seed Co.**
Greene, N. Y.
(See Adv. Index Page 178)
- Mastin, Cornelius H.
Newburgh, N. Y.
- Vail, Harry
New Milford, N. Y.
- Amtdorg Trading Corporation**
New York, N. Y.
(See Adv. Index Page 178)
- Doughten Seed Co.
New York, N. Y.
- Lochner & Co., Inc.**
New York, N. Y.
(See Adv. Index Page 178)
- Nungesser-Dickinson Seed Co.
New York, N. Y.
- Scandinavian Seed Co.
New York, N. Y.
- Steinhardt & Nordlinger
New York, N. Y.
- Stump & Walter Co.**
New York, N. Y.
(See Adv. Index Page 178)
- Williamson, Garfield
New York, N. Y.
- McCann, Jno. J.
Poughkeepsie, N. Y.
- James Vick's Sons
Rochester, N. Y.
- Metcalf & Son, Inc., B. F.
Syracuse, N. Y.
- Saul, C. F.
Syracuse, N. Y.
- NORTH CAROLINA**
- Asheville Seed Co.
Asheville, N. C.
- Buxton White Seed Co.
Elizabeth City, N. C.
- Huske Hardware House
Fayetteville, N. C.
- Catawba Seed Store
Hickory, N. C.
- Parker & Co., J. H.
Newbern, N. C.
- Wyatt & Sons Co., Job P.
Raleigh, N. C.
- Rowan Seed Store
Salisbury, N. C.
- Roudabush & Co., W. P.
Wilmington, N. C.
- NORTH DAKOTA**
- Dacotah Seed Co.
Bismarck, N. D.
(See Adv. Index Page 178)
- Interstate Seed & Grain Co.**
Fargo, N. D.
(See Adv. Index Page 178)
- Magill & Co. (Operating Fargo Seed House)**
Fargo, N. D.
(See Adv. Index Page 178)
- Grand Forks Seed Co.
Grand Forks, N. D.
- Valker-Christensen Co.
Minot, N. D.
- OHIO**
- Gerber & Son, Seth
Baltic, Ohio
- Healy Seed Co.
Belle Center, Ohio
- Holmes Seed Co.
Canton, Ohio
- Haile & Sons, J. C.
Cincinnati, Ohio
- Market Gardeners' Seed Co.**
Cincinnati, Ohio
(See Adv. Index Page 178)
- McCullough Seed Co., The J. Chas.
Cincinnati, Ohio.
- McCullough's Sons Co., The J. M.**
Cincinnati, Ohio
(See Adv. Index Page 178)
- Van Atta Seed Co., D. R.
Cincinnati, Ohio
- Botzum Seed Co.
Cleveland, Ohio
- Chandlers Sons, C.
Cleveland, Ohio
- Kelly Co., The
Cleveland, Ohio
- Lorenz, Chas. E.
Coshocton, Ohio
- Davis, Henry
Findlay, Ohio
- Hoyt Co., The A. C.
Fostoria, Ohio
- O. & M. Seed Co. (Seed Oats and Seed Corn)**
Green Springs, Ohio
(See Adv. Index Page 178)
- Elkenberry Bros. Co.**
Hamilton, Ohio
(See Adv. Index Page 178)
- Lexington Elev. & Mill Co.
Lexington, Ohio
- Ackerman Co., The**
Lima, Ohio
(See Adv. Index Page 178)
- Scott & Sons Co., O. M.
Marysville, Ohio
- Shepard Co., O. C.
Medina, Ohio
- Johnson, J. W.
Napoleon, Ohio
- Scarff & Sons, W. N.
New Carlisle, Ohio
- Bachrach & Co., M.
Plymouth, Ohio
- Roberts & Harpster
Thornville, Ohio
- Sneath-Cunningham Co.
Tiffin, Ohio
- Saunders Seed Co.
Tippecanoe City, Ohio
- Churchill Grain & Seed Co.
Toledo, Ohio
- Flower Co., S. W.
Toledo, Ohio
- Hirsch & Sons, Henry**
Toledo, Ohio
(See Adv. Index Page 178)

USE THE STICKER!

(See page 179)

It is a guarantee of the best of service.

Sweet Clover Seed

Buy Hardy Northern Grown Seeds. We specialize in marketing seeds grown in our territory and under rigorous climatic conditions. We furnish these seeds in carloads but are always glad to quote on less than carload shipments also.

Write for Quotations.

**Sweet Clover—Bromus Inermis—Red Clover—
Grimm Alfalfa—Timothy—Slender Wheat Grass**

Established since 1887

MAGILL & CO., Operating Fargo Seed House, FARGO, N. DAK.

Northern Grown Seed Grains

Such as

Seed Corn, Marquis Wheat,
Seed Flax, Seed Oats, Seed
Barley, Bromus Inermis,
Wheat Grass, Alfalfa, etc.

We manufacture a complete line of
Poultry and Stock Feed, and invite
correspondence.

DACOTAH SEED COMPANY,
Bismarck, No. Dakota



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CHAIN STORE RETAILERS

**Farm and Truck
Seeds
and
All Seedmen's Side
Lines**

To Reach Purchasing De-
partment address all
correspondence
to

**THE
EIKENBERRY BROS. CO.**
701 Maple Avenue
HAMILTON, OHIO

GROWERS

of

**Field Corn
Garden Corn
Soybeans
Seed Oats**

Correspondence
Solicited

**THE O & M SEED
COMPANY**

Green Springs

Ohio

WHOLESALE FIELD SEEDS—Continued

King & Co., C. A.
Toledo, Ohio
Premier Seed Co.
Toledo, Ohio
Zahm & Co., J. F.
Toledo, Ohio
Wooster Grain & Seed Co.
Wooster, Ohio

OKLAHOMA

Oklahoma Improved Seed Co.
Chickasha, Okla.
Binding-Stevens Co.
Muskogee, Okla.
Muskogee Seed House
Muskogee, Okla.
Binding-Stevens Seed Co.
Tulsa, Okla.

OREGON

Murphy Seed Store
Albany, Ore.
Senders & Co., M.
Albany, Ore.
Hershberger, Lee L.
Independence, Ore.
Lilly Co., The Chas. H.
Portland, Ore.
(See Adv. Index Page 178)
Portland Seed Co.
Portland, Ore.
White & Sons, D. A.
Salem, Ore.
Jenks White Seed Co.
Salem, Ore.
Vollstedt, W. A.
Tangent, Ore.
(See Adv. Index Page 178)

PENNSYLVANIA

Klingler & Co., H. J.
Butler, Pa.
Schell, Inc., Walter S.
Harrisburg, Pa.
(See Adv. Index Page 178)
Hoffman, Inc., A. H.
Landisville, Pa.
Shenk & Sons, S. E.
Newville, Pa.
Atlantic Seed Co.
Philadelphia, Pa.
Philadelphia Seed Co.
Philadelphia, Pa.
(See Adv. Index Page 178)
Seaboard Seed Co.
Philadelphia, Pa.
(See Adv. Index Page 178)
Dickinson Co., The Albert
Pittsburgh, Pa.
Scott Co., I. W.
Pittsburgh, Pa.
Hertzog, H. F.
Reading, Pa.

SOUTH CAROLINA

Mixson Seed Co., W. H.
Charleston, S. C.
Kirkland Seed Co., B. B.
Columbia, S. C.
Bryson Holcombe Seed Co.
Greenville, S. C.
Burr Clover Farms (Bur Clover)
Rock Hill, S. C.

SOUTH DAKOTA

Sexauer & Son, George P.
Brookings, S. D.
Dakota Improved Seed Co.
Mitchell, S. D.
Haley-Neeley Co.
Sioux Falls, S. D.
(See Adv. Index Page 178)
Gurney Seed & Nursery Co.
Yankton, S. D.

TENNESSEE

Wheeler Co., Dan C.
Chattanooga, Tenn.
English & Sons, W. H.
Franklin, Tenn.
Fleming, S. M.
Franklin, Tenn.
West & Rue
Franklin, Tenn.
Hackney, Kearns & Lackey
Knoxville, Tenn.
Mayo, D. R.
Knoxville, Tenn.
Cook, L. P.
Memphis, Tenn.
Mosby Seed Co., John
Memphis, Tenn.
Russell-Heckle Seed Co.
Memphis, Tenn.
Schwill & Co., Otto
Memphis, Tenn.
Dodson-Hicks Co.
Nashville, Tenn.
Hill & Co., Chas. H.
Nashville, Tenn.
McKay-Reece Co.
Nashville, Tenn.
Rose & Co., G. P.
Nashville, Tenn.
Cole Seed Saver Co.
Newbern, Tenn.
Collins Company, The
Winchester, Tenn.

TEXAS

Kearns Grain & Seed Co., Inc.
Amarillo, Texas
(See Adv. Index Page 178)
Eastern Seed Co.
Corpus Christi, Tex.
Nicholson Seed Co., Robert
Dallas, Texas
Sherman-Magnolia Seed Co.
Dallas, Texas
The American Seed Co.
Fort Worth, Texas
Ferguson Seed Farms
Sherman, Texas

UTAH

Farr, Thos.
Ogden, Utah
Bailey & Sons Co.
Salt Lake City, Utah
Kelly Western Co.
Salt Lake City, Utah
Occidental Seed Co.
Salt Lake City, Utah

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No charge. Just write us and we will do the rest.
SEED WORLD, 1018 So. Wabash Ave., Chicago

Why Don't You Try Schell's?

It seems when some items are scarce and almost impossible to get anywhere—you can get them at Schell's.

They carry big stocks and have a reputation for quality that is not excelled anywhere.

You get highest quality and real service from them.

Try them next time you need any item in Garden or Flower Seeds.

Their address is

Schell's Seed House

or

Walter S. Schell, Inc.

Tenth and Market Sts.
Harrisburg, Pa.

It is a very, very busy place and it is amazing to see the number of orders they fill.

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H. W. DOUGHTEN, Pres.

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Importers

Exporters

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Field

Fancy Grass

Seeds

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Front and Bainbridge St.

Philadelphia

Branch: Lancaster, Pa.

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Bulk Country Run or Recleaned,
Tested and Tagged—Prompt or
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Millet Cane Feterita

Hegari Darso

Kafir Milo

TEXAS RED

RUST PROOF OATS

Originators with 7 Coun-
try Elevators and connec-
tions in nearly every town
in the Panhandle.

Kearns Grain & Seed Co.

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Field Seeds

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for

**TIMOTHY
CLOVER
ALSIKE**

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LIMA, OHIO

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Salt Lake City, Utah

VERMONT

Middlebrook & Sons, J. C.
Burlington, Vt.
Burdett Bros.
Rutland, Vt.

VIRGINIA

Bryant's Son, Herbert,
Alexandria, Va.
May & Son, Inc., W. H.
Alexandria, Va.
Vance & Co., Jas. L.
Chilhowie, Va.
Pritchett & Son, Jas. I.
Danville, Va.
Smith Seed & Feed Co.
Danville, Va.
Jordan Seed & Fertilizer Co.
Dublin, Va.
Wetsel Seed Co.
Harrisonburg, Va.
Lynchburg Seed Co.
Lynchburg, Va.
Charlton, E. H.
Norfolk, Va.
Grossman & Son, W.
Petersburg, Va.
Roper & Co.
Petersburg, Va.
Beveridge & Co., S. T.
Richmond, Va.
Boehling & Co., F. H.
Richmond, Va.
Carter-Venable Co., Inc., The
Richmond, Va.
Diggs & Beadles
Richmond, Va.

Virginia Seed Service
Richmond, Va.
Wood & Sons, T. W.
Richmond, Va.
Implement & Seed Co.
Roanoke, Va.
Roanoke Seed & Supply Co.
Roanoke, Va.
Slate Seed Co.
South Boston, Va.
Pinner & Co.
Suffolk, Va.
Winchester Seed Co., Inc.
Winchester, Va.

WASHINGTON

Lilly Co., Chas. H.
Seattle, Wash.
(See Adv. Index Page 178)
Northwest Seed Co.
Seattle, Wash.
Inland Seed Co.
Spokane, Wash.
Spokane Seed Co.
Spokane, Wash.

WISCONSIN

Knauf & Tesch
Chilton, Wis.
Henry Michels Seed Co.
Fond du Lac, Wis.
Courteen Seed Co.
Milwaukee, Wis.
Kellogg Seed Co.
Milwaukee, Wis.
North American Seed Co.
Milwaukee, Wis.
Teweles Seed Co., L.
Milwaukee, Wis.
Cochrane Seed Co., T. H.
Portage, Wis.

HERBST BROTHERS

Established 1876

43 South Street

New York, N. Y.

Agents for T. Sakata & Co., Yokohama

FLOWER SEEDS

VEGETABLE SEEDS

WHITE CLOVER

FANCY GRASSES

SAKATA'S Oriental vegetable seeds; Pe-Tsai and Wong Bok
Cabbage, Turnips, Mustard, Greens.

Specialty: Domestic and Foreign Tree and Shrub Seed for
Nurserymen.

We have our own Warehouse at New York, to handle
your consignments.

THE CHAS. H. LILLY CO., SEATTLE, WASH.

ESTABLISHED 1885

GROWERS:Cabbage, Beet, Turnip, Spinach, Kale, Parsnip,
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Clover, Vetch, Dwarf Essex, Rape (Domestic)**HAMILTON
SEED and COAL CO.**

CEDAR RAPIDS

IOWA

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**TIMOTHY - ALSYKE
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(See Page 179)

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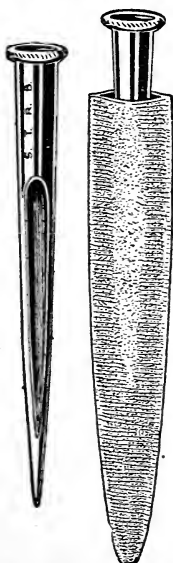
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The figures in the following table are intended to be approximate only, as variations occur in varieties and are also due to conditions of growth, harvest and storage.

Vegetable	Average Germination 1 Year Old Seed	Average Duration of Germinating Power in Years	Average Number of Seeds per Ounce	Average Weight of Quart of Seed in Ounces	Amount Required for 100 Feet of Drill	Amount of Seed required Per Acre	Depth of Planting
Asparagus.....	90%	3	1,000	32	1 oz.	5 lbs.	1 in.
Beans, Dwarf	90%	3	100	30	1 lb.	60 lbs.	1 in.
Beans, Pole	90%	3	100	30	½ lb.	30 lbs.	1 in.
Beet, Garden	80%	4	1,750	10	1 oz.	6 lbs.	1 in.
Beet, Mangel	80%	4	1,200	10	1 oz.	5 lbs.	1 in.
Brussels Sprouts ...	85%	4	6,500	24	¼ oz.	2 oz.	½ in.
Cabbage	85%	4	5,000	24	¼ oz.	4 oz.	½ in.
Carrot	75%	3	14,000	12	½ oz.	2 lbs.	½ in.
Cauliflower	75%	4	14,000	24	¼ oz.	1 oz.	½ in.
Celery	80%	3	100,000	16	¼ oz.	4 oz.	⅝ in.
Collards	88%	3	4,500	24	¼ oz.	4 oz.	½ in.
Corn, Sweet	85%	3	125	23	¼ lb.	12 lbs.	1 in.
Cucumber	85%	5	1,000	18	½ oz.	2 lbs.	1 in.
Eggplant	75%	4	5,000	18	⅝ oz.	4 oz.	½ in.
Endive	80%	5	13,500	12	1 oz.	2 lbs.	½ in.
Kale	85%	4	7,500	24	¼ oz.	1 lb.	½ in.
Kohlrabi.....	85%	3	7,000	24	¼ oz.	1 lb.	½ in.
Leek	80%	2	8,000	18	½ oz.	4 lbs.	½ in.
Lettuce	90%	6	16,000	14	½ oz.	3 lbs.	½ in.
Melon, Musk	85%	5	1,200	12	½ oz.	2 lbs.	1 in.
Melon, Water	85%	5	225	16	1 oz.	2 lbs.	1 in.
Mustard	85%	3	18,000	30	¼ oz.	1 lb.	¼ in.
Okra	85%	1	425	20	2 oz.	8 lbs.	1 in.
Onion	80%	2	12,500	16	1 oz.	4 lbs.	½ in.
Parsley	70%	1	17,500	12	¼ oz.	3 lbs.	⅝ in.
Parsnip	75%	1	2,800	10	½ oz.	3 lbs.	½ in.
Peas	90%	3	50 to 150	30	1 lb.	60 lbs.	1 in.
Pepper	75%	2	4,000	16	⅝ oz.	2 oz.	½ in.
Pumpkin	90%	4	100	9	½ oz.	4 lbs.	1 in.
Radish	90%	4	5,000	24	1 oz.	10 lbs.	½ in.
Salsify	75%	1	4,500	12	1 oz.	8 lbs.	½ in.
Spinach	80%	3	3,000	14	1 oz.	8 lbs.	1 in.
Squash, Summer ...	90%	4	300	20	½ oz.	4 lbs.	1 in.
Squash, Winter	90%	4	125	14	½ oz.	2 lbs.	1 in.
Tomato	85%	3	7,500	10	⅝ oz.	1½ oz.	½ in.
Turnip	90%	4	10,000	24	½ oz.	1 lb.	¼ in.

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Watermelon, Squash,
Pumpkin and Gourd.

WHOLESALE ONLY

VEGETABLE PLANTING TABLE

Kind of vegetable	Seeds or roots required for 100 ft. of drill	One Acre	Distance for plants to stand				Depth of planting	Time of planting in open ground		Ready for use after planting
			Rows apart		Plants apart in rows	South		North		
			Horse cultivation	Hand cultivation						
Asparagus, seed	1 oz.	5 lbs.	30 to 36 in.	1 to 2 ft.	3 in.	1 in.	Early spring.	North	2 years	
Asparagus, roots	60 to 80.	1 bu.	30 to 36 in.	12 to 24 in.	15 to 20 in.	3 to 5 in.	Early spring.		1 year	
Beans, dwarf	1 pt.	1 bu.	30 to 36 in.	18 to 24 in.	15 to 20 in.	1 in.	Autumn or early spring.			
Beans, pole	1/2 pt.	1/2 bu.	3 to 4 ft.	3 to 4 ft.	3 to 4 ft.	1 in.	Autumn or early spring.			
Beets	1 oz.	6 lbs.	28 to 36 in.	12 to 18 in.	2 in.	1 in.	Autumn or early spring.			
Brussels sprouts	1/4 oz.	2 oz.	30 to 36 in.	24 to 30 in.	16 to 24 in.	1/2 in.	Autumn or early spring.			
Cabbage, early	1/4 oz.	1/4 lb.	30 to 36 in.	24 to 30 in.	12 to 18 in.	1/2 in.	Autumn or early spring.			
Cabbage, late	1/4 oz.	1/4 lb.	30 to 40 in.	24 to 36 in.	16 to 24 in.	1/2 in.	Autumn or early spring.			
Carrot	1/2 oz.	2 lbs.	30 to 36 in.	18 to 24 in.	2 in.	1/2 in.	Autumn or early spring.			
Caiflower	1/4 oz.	1 oz.	30 to 36 in.	24 to 30 in.	14 to 18 in.	1/2 in.	Autumn or early spring.			
Celery	1/4 oz.	1/4 lb.	30 to 6 ft.	18 to 36 in.	2 in.	1/2 in.	Autumn or early spring.			
Collards	1/4 oz.	1/4 lb.	30 to 36 in.	24 to 30 in.	14 to 18 in.	1/2 in.	Autumn or early spring.			
Corn, sweet	1/4 pt.	6 qts.	36 to 42 in.	30 to 36 in.	4 to every 3 ft.	1 in.	Autumn or early spring.			
Cress, water	1/2 oz.	2 lbs.	Broadcast.	4 to 6 ft.	4 every 3 ft.	1 in.	Autumn or early spring.			
Cucumber	1/2 oz.	2 lbs.	4 to 6 ft.	4 to 6 ft.	4 every 3 ft.	1 in.	Autumn or early spring.			
Eggplant	1/2 oz.	1/4 lb.	30 to 36 in.	24 to 30 in.	18 in.	1/2 in.	Autumn or early spring.			
Endive	1 oz.	2 lbs.	30 in.	18 in.	12 in.	1/2 in.	Autumn or early spring.			
Kale, or borecole.	1/4 oz.	1 lb.	30 to 36 in.	18 to 24 in.	18 in.	1/2 in.	Autumn or early spring.			
Kohlrabi	1/4 oz.	1 lb.	30 to 36 in.	18 to 24 in.	6 in.	1/2 in.	Autumn or early spring.			
Leek	1/2 oz.	4 lbs.	30 to 36 in.	14 to 20 in.	4 in.	1/2 in.	Autumn or early spring.			
Lettuce	1/2 oz.	3 lbs.	30 in.	12 to 18 in.	6 in.	1/2 in.	Autumn or early spring.			
Muskmelon	1/2 oz.	2 lbs.	6 to 8 ft.	6 to 8 ft.	4 every 4 ft.	1 in.	Autumn or early spring.			
Watermelon	1 oz.	2 lbs.	8 to 12 ft.	8 to 12 ft.	4 every 4 ft.	1 in.	Autumn or early spring.			
Mustard	1/4 oz.	1 lb.	30 to 36 in.	12 to 18 in.	4 or 5 ft.	1/2 in.	Autumn or early spring.			
Okra	2 oz.	8 lbs.	4 to 5 ft.	3 to 4 ft.	24 in.	1 in.	Autumn or early spring.			
Onion, seed	1 oz.	4 lbs.-5 lbs.	24 to 36 in.	12 to 18 in.	2 in.	1/2 in.	Autumn or early spring.			
Onion, sets	1 qt.		24 to 36 in.	12 to 18 in.	4 or 5 to ft.	1 in.	Autumn or early spring.			
Onion, seed for sets.	1 lb.	50 lbs.	24 to 36 in.	12 to 18 in.	1/2 in.	1/2 in.	Autumn or early spring.			
Parsley	1/4 oz.	3 lbs.	24 to 36 in.	12 to 18 in.	3 in.	1/2 in.	Autumn or early spring.			
Parsnip	1/2 oz.	3 lbs.	30 to 36 in.	18 to 24 in.	2 in.	1/2 in.	Autumn or early spring.			
Peas	1 pt.	1 bu.	3 to 4 ft.	30 to 36 in.	1 in.	1 in.	Autumn or early spring.			
Pepper	1/2 oz.	2 oz.	30 to 36 in.	18 to 24 in.	15 in.	1/2 in.	Autumn or early spring.			
Potatoes, Irish	5 lbs.	16 bu.	30 to 36 in.	24 to 36 in.	14 in.	4 in.	Autumn or early spring.			
Potatoes, sweet	3 lbs.(or 75 slips)		3 to 5 ft.	3 to 5 ft.	14 in.	3 in.	Autumn or early spring.			

This Vegetable Planting Table Continued on Following Page

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Vegetable Planting Table—Continued from Preceding Page

Kind of vegetable	Seeds or roots required for 100 ft. of drill	One Acre			Distance for plants to stand			Time of planting in open ground		Ready for use after planting
		Horse cultivation	Rows apart	Hand cultivation	Plants apart in rows		South	North		
					Horse cultivation	Rows apart				
Pumpkin.....	4 lbs.	8 to 12 ft.	8 to 12 ft.	4 every 6 ft.	1 in.	April and May.....	May to July.....	75 to 90 days		
Radish.....	10 lbs.	24 to 36 in.	12 to 18 in.	1 in.	1/2 in.	Sept. to April.....	March to Sept.....	20 to 75 days		
Rhubarb, seed.....	1/2 oz.	36 in.	30 to 36 in.	6 in.	1/2 to 1 in.	Early spring.....	Early spring.....	3 years		
Rhubarb, roots.....	35 roots.	3 to 5 ft.	3 to 5 ft.	3 ft.	2 to 3 in.	Autumn or early spr'g.....	Autumn or early spr'g.....	1 year		
Ruta-baga.....	2 lbs.	30 to 36 in.	18 to 24 in.	6 in.	1/2 to 1 in.	Aug. and Sept.....	May and June.....	90 days		
Salsify.....	1 oz.	30 to 36 in.	18 to 24 in.	2 in.	1/2 in.	Sept. to Feb.....	Sept. to Feb.....	150 days		
Spinach.....	8 lbs.	30 to 36 in.	12 to 18 in.	2 in.	1 in.	Sept. or very e'ly spr'g.....	Sept. or very e'ly spr'g.....	45 days to min.		
Squash, summer.....	4 lbs.	3 to 4 ft.	3 to 4 ft.	4 every 4 ft.	1 in.	Spring.....	April to June.....	65 to 70 days		
Squash, winter.....	2 lbs.	7 to 10 ft.	7 to 10 ft.	4 every 6 ft.	1 in.	Spring.....	May to July.....	125 days		
Tomato.....	1/2 oz.	3 to 5 ft.	3 to 4 ft.	3 by 4 ft.	1/2 in.	Dec. to March.....	May to June.....	125 days		
Turnip.....	1 lb.	24 to 36 in.	18 to 24 in.	2 in.	1/4 in.	Aug. to Oct.....	April and Aug.....	45 to 90 days		

Helpful Hints to Vegetable Gardeners

DECIDE early how much ground you will use and what you will plant. Plow or spade before the ground freezes, if you can. A little fertilizer or manure will insure better crops.

Don't cover the seed too deep. It will germinate more quickly if only a little soil is on the seed. See full cultural directions on the packets. Leave the garden alone until the plants come up. If you have sown bulk seeds, thin rows after plants are up an inch or two. Using seed-tape reduces thinning to a minimum.

Lima beans should be planted with the eye down and covered one inch deep.

Sow radishes directly in the row with your parsley.

Order your seeds early so that you can take advantage of the first signs of spring.

When you water, do it thoroughly—don't sprinkle, soak.

Plant early everything but beans, wrinkled peas, and vine crops.

If soil is dry, water may be put on. Let it run slowly and don't spare the water—it's cheap.

Don't think water will take the place of thorough cultivation—it won't.

You will have a better garden if you use the hoes more, and the hose less. Weeds are garden robbers. Kill them when they are small.

For large head lettuce, thin out to at least six inches.

Plant enough to have some vegetables for home canning.

Buy only first-class, reputable materials, even if it means less of them.

Get a good spray and use it.

Hoe often to loosen the soil and hold moisture around the roots of the plants.

You cannot do good work with poor tools. Have a good hoe, rake, fork and spade.

A small hand cultivator will make you feel like a professional gardener. It will soon pay for itself, too.

Don't try "watchful waiting" for bugs, worms and other vermin. Swat 'em or they will spoil your plants.

Plant small, quick growers like lettuce, radishes, etc., between the rows of larger, slower maturing sorts. In the case of early sorts such as spinach, start tomatoes, corn, etc., between the rows to occupy the ground after the former is harvested.

Never cultivate or handle any kind of beans when the vines are wet. This is the easiest way to spread a serious disease and ruin the crop.

Success against weeds means keeping them out, not taking them out after they get in.

To ensure a succession of such plants as peas, beans, lettuce, radishes, beets, kohlrabi, etc., sow a fresh row every week or so.



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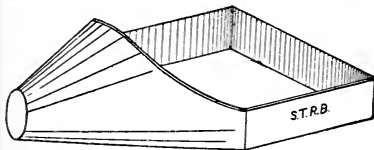
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IMPORTS AND PRICES OF VEGETABLE SEEDS

Compiled from figures published by Department of Commerce.

Kind of Seed—	Imports—Calendar Years					Average Prices†				
	Lbs. 1924	Lbs. 1925	Lbs. 1926	Lbs. 1927	Lbs. 1928*	Per lb. 1924	Per lb. 1925	Per lb. 1926	Per lb. 1927	Per lb. 1928
Beet, garden	423,057	278,753	390,042	327,268	203,465	\$.15	\$.157	\$.154	\$.163	\$.158
Beet, mangel	297,684	206,707	412,397	228,971	150,180	.114	.128	.102	.102	.111
Cabbage	209,592	125,428	326,625	275,341	119,557	.437	.496	.537	.535	.522
Carrot	134,206	40,838	57,525	29,059	41,501	.273	.402	.379	.496	.348
Cauliflower	13,754	9,043	21,883	16,643	3,553	6.06	6.93	6.30	6.396	8.391
Kale	50,421	24,787	64,760	48,025	14,458	.197	.216	.193	.18	.208
Kohlrabi	13,376	6,732	15,360	11,822	3,755	.451	.449	.439	.488	.524
Onion	104,027	17,378	360,961	252,203	21,201	1.00	.954	1.29	1.826	.612
Parsley	146,782	332,680	295,685	95,500	409,830	.122	.135	.115	.167	.136
Parsnip	57,974	35,922	41,653	32,081	13,675	.158	.145	.120	.107	.149
Pepper	3,276	2,541	5,585	3,921	1,712	.691	.654	.581	.677	.871
Radish	651,061	413,622	1,010,552	742,178	279,850	.168	.182	.160	.158	.162
Spinach	2,685,972	618,886	2,471,760	2,085,764	595,193	.083	.091	.092	.093	.114
Turnip	1,349,960	608,976	1,914,128	1,145,517	629,649	.116	.129	.112	.113	.111
Rutabaga	200,693	75,500	385,855	201,166	58,063	.12	.137	.111	.110	.127

*Six months ending June 30, 1928. †All prices are F. O. B. port of origin and not including duty.

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- North Alabama Seed Co.
Florence, Ala.
- Wind & Co., I.
Huntsville, Ala.
- Van Antwerp's Seed Store**
Mobile, Ala.
(See Adv. Index Page 178)
- Hawthorne-Jones Co., Inc.
Montgomery, Ala.

ARKANSAS

- Fort Smith Seed Co., Inc.
Fort Smith, Ark.

CALIFORNIA

- Cuff-Archias Seed Co.
Brawley, Calif.
- Fish, Henry Berrien (Beans)**
Carpinteria, Calif.
(See Adv. Index Page 178)
- Golden State Seed Co.
Coyotes, Cal.
- Aggeler & Musser Seed Co., Inc.**
Los Angeles, Cal.
(See Adv. Index Page 178)
- Bodger & Sons Co., John**
El Monte, Los Angeles County, Calif.
(See Adv. Index Page 178)
- Germain Seed & Plant Co.**
Los Angeles, Cal.
(See Adv. Index Page 178)
- Los Angeles Seed Co., Inc.
Los Angeles, Cal.
- Morris & Snow Seed Co.
Los Angeles, Calif.
- Winsel, Chas.
Los Angeles, Cal.
- Lagamarsino & Sons, F.**
Sacramento, Cal.
(See Adv. Index Page 178)
- Laughlin Seed Co. (Onion)
Sacramento, Calif.
- Ward Seed Co., Wm. A.**
Sacramento, Calif.
(See Adv. Index Page 178)
- Bertrand Seed Co.**
San Francisco, Calif.
(See Adv. Index Page 178)
- McGill Seed Co., R. C.**
San Francisco, Calif.
(See Adv. Index Page 178)
- Morse & Co., C. C.**
San Francisco, Cal.
(See Adv. Index Page 178)
- Oriental Seed Co.
San Francisco, Cal.
- Pacific Seed Growers
San Francisco, Calif.
- Sherwood Seed Co.
San Francisco, Calif.
- California Seed Growers Assn., Inc.
San Jose, Calif.
- Haven Seed Co. (Tomatoes)**
Santa Ana, Calif.
(See Adv. Index Page 178)
- Fish Seed Co., Henry (Beans)**
Santa Barbara, Calif.
(See Adv. Index Page 178)
- Knox Seed Co.**
Stockton, Calif.

Standard Seed Farms Co.
Stockton, Cal.

- (See Adv. Index Page 178)
- Hogue-Kellogg Co., The**
Ventura, Calif.
(See Adv. Index Page 178)

CANADA

- McKenzie Co., Ltd., A. E.
Brandon, Manitoba, Can.
- Bruce & Co., Ltd., John A.**
Hamilton, Ont., Can.
(See Adv. Index Page 178)
- Gold Medal People, Ltd.
Toronto, Canada
- Keith & Sons, Geo.
Toronto, Canada
- Rennie Co., Ltd., Wm.
Toronto, Canada
- Steele, Briggs Seed Co., Ltd.**
Toronto, Canada
(See Adv. Index Page 178)

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Denver, Colo.
- Burton Seed Co.
Denver, Colo.
- Colorado Seed Co.
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- Western Seed Co.
Denver, Colo.
- Grand Junction Seed Co.**
Grand Junction, Colo.
(See Adv. Index Page 178)
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Rocky Ford, Colo.
- Ebbert Seed Co.
Rocky Ford, Colo.
- James, R. H.
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- Platt Company, Frank S.
New Haven, Conn.
- Woodruff & Sons, S. D.**
Orange, Conn.
(See Adv. Index Page 178)
- Comstock, Ferre & Co.**
Wethersfield, Conn.
(See Adv. Index Page 178)
- Hart Seed Co., Chas. C.**
Wethersfield, Conn.
(See Adv. Index Page 178)

DELAWARE

- Boggs & Son, Caleb
Cheswold, Del.

DISTRICT OF COLUMBIA

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Washington, D. C.

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(See Adv. Index Page 178)

Hollenbach, Peter (Onion Sets)
Chicago, Ill.
(See Adv. Index Page 178)

Leonard Seed Co.
Chicago, Ill.
(See Adv. Index Page 178)

Quality Seed & Bulb Co.
Chicago, Ill.

Rogers Bros. Seed Co.
Chicago, Ill.
(See Adv. Index Page 178)

Vaughan's Seed Store
Chicago, Ill.

Condon Bros.
Rockford, Ill.
(See Adv. Index Page 178)

Rockford Seed Co.
Rockford, Ill.

INDIANA

Crabbs, Reynolds, Taylor Co.
Crawfordsville, Ind.

Ohio Valley Seed Co.
Evansville, Ind.

Williamson, E. B.
Goshen, Ind.

Warren Seed Co.
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IOWA

Iowa Seed Co.
Des Moines, Iowa

Sioux City Seed Co.
Sioux City, Iowa
(See Adv. Index Page 178)

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Atchison, Kan.

Barteldes Seed Co.
Lawrence, Kan.

Coe Seed & Grain Co., D. O.
Topeka, Kan.
(See Adv. Index Page 178)

Ross Bros. Seed Co.
Wichita, Kan.

KENTUCKY

Brent Seed Co., C. S.
Lexington, Ky.

Hall Seed Co.
Louisville, Ky.
(See Adv. Index Page 178)

Wood, Stubbs & Co.
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Reuter Seed Co.
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Steckler Seed Co., Inc., J.
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MARYLAND

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Baltimore, Md.
(See Adv. Index Page 178)

Bolgiano Seed Co., J.
Baltimore, Md.

Griffith & Turner Co.
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Manns & Co., J.
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Detroit, Mich.

Detroit International Sales Co.
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Ferry & Co., D. M.
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Brown Seed Co., Alfred J.
Grand Rapids, Mich.
(See Adv. Index Page 178)

Brown & Son, Inc., A. J. (Peas and Beans)
Grand Rapids, Mich.

Isbell Seed Co.
Jackson, Mich.
(See Adv. Index Page 178)

MINNESOTA

Farmer Seed & Nursery Co.
Faribault, Minn.
(See Adv. Index Page 178)

Minnetonka Gladiolus Farms
R. 3, Hopkins, Minn.

Northrup, King & Co.
Minneapolis, Minn.
(See Adv. Index Page 178)

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Rose Seed Co.
Clarksdale, Miss.

Taylor-Tucker Seed Co.
Jackson, Miss.

Kimbrough Seed Co.
Meridian, Miss.

MISSOURI

Rudy-Patrick Seed Co.
Kansas City, Mo.
(See Adv. Index Page 178)

Chesmore Seed Co.
St. Joseph, Mo.

Corneli Seed Co.
St. Louis, Mo.
(See Adv. Index Page 178)

Kaercher Seed & Supply Co.
St. Louis, Mo.

United States Seed Co.
St. Louis, Mo.

MONTANA

Barkemeyer Grain & Seed Co.
Great Falls, Mont.

State Nursery & Seed Co.
Helena, Mont.

NEBRASKA

Western Seed & Irrigation Co.
Fremont, Neb.
(See Adv. Index Page 178)

Griswold Seed & Nursery Co.
Lincoln, Neb.
(See Adv. Index Page 178)

Gunn Seed Co.
Lincoln, Neb.

Nebraska Seed Co.
Omaha, Neb.

Ranney Seed Co., C. A.
Omaha, Neb.

Stewart Seed Co.
Omaha, Nebr.



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Bridgeton, N. J.
Shedaker & Son, B. D.
Burlington, N. J.
(See Adv. Index Page 178)
- Taylor Bros.
Camden, N. J.
Pedrick & Son, Geo. R.
Pedricktown, N. J.
(See Adv. Index Page 178)
- Hurff, Edgar F.**
Swedesboro, N. J.
(See Adv. Index Page 178)

NEW HAMPSHIRE

- Holbrook Grocery Co.
Keene, N. H.

NEW YORK

- Danish Seed Growers Sales Co., Inc.**
Brooklyn, N. Y.
(See Adv. Index Page 178)
- Harvey Seed Co.**
Buffalo, N. Y.
(See Adv. Index Page 178)
- Rice Seed Co., Jerome B.**
Cambridge, N. Y.
(See Adv. Index Page 178)
- Forrest Seed Co., Inc.**
Cortland, N. Y.
(See Adv. Index Page 178)
- Burt, William D.
Dalton, N. Y.
- Denison Seed Co., W. A.
Ellisburg, N. Y.
- Page Seed Co.**
Greene, N. Y.
(See Adv. Index Page 178)
- Lupton & Son, J. M.**
Mattituck, L. I., N. Y.
(See Front Cover)
- Mastin, Cornelius H.
Newburgh, N. Y.
- Amorg Trading Corporation**
New York, N. Y.
(See Adv. Index Page 178)
- Henry & Lee**
New York, N. Y.
- Herbst Bros.**
New York, N. Y.
(See Adv. Index Page 178)
- Holst-Knudsen, S.
New York, N. Y.
- Loechner & Co., Inc.**
New York, N. Y.
(See Adv. Index Page 178)
- Madsen & Co., Thos.
New York, N. Y.
- Steinhardter & Nordlinger
New York, N. Y.
- Stumpp & Walter Co.**
New York, N. Y.
(See Adv. Index Page 178)
- Vaughan's Seed Store
New York, N. Y.
- Williamson, Garfield
New York City
- Vick's Sons, James
Rochester, N. Y.
- Metcalf & Son, Inc., B. F.
Syracuse, N. Y.
- Saul, C. F.
Syracuse, N. Y.

NORTH CAROLINA

- Asheville Seed Co.
Asheville, N. C.
- Buxton White Seed Co.
Elizabeth City, N. C.
- Huske Hdwe. Co.
Fayetteville, N. C.
- Wyatt & Sons Co., Job P.
Raleigh, N. C.
- Roudabush & Co., W. P.
Wilmington, N. C.

NORTH DAKOTA

- Will & Co., Oscar H.
Bismarck, N. D.
- Magill & Co. (Operating Fargo Seed House)**
Fargo, N. D.
(See Adv. Index Page 178)

OHIO

- Botzum Seed Co.
Akron, Ohio
- Miller, Seedsman, Wm.
Bellefontaine, Ohio
- Holmes Seed Co.
Canton, Ohio
- Holmes-Letherman Seed Co.
Canton, Ohio
- Schilder Bros. (Onion Seed and Sets)
Chillicothe, Ohio
- McCullough Seed Co., J. Chas.
Cincinnati, Ohio
- McCullough's Sons Co., J. M.**
Cincinnati, Ohio
(See Adv. Index Page 178)
- Market Gardener's Seed Co.**
Cincinnati, Ohio
(See Adv. Index Page 178)
- Botzum Seed Co.
Cleveland, Ohio
- Johnson's Seed Store
Cleveland, Ohio
- Davis, Zack
Delaware, Ohio

OKLAHOMA

- Muskogee Seed House
Muskogee, Okla.
- Binding-Stevens Seed Co.
Tulsa, Okla.

OREGON

- Gili Bros. Seed Co.
Portland, Ore.
- Lilly Co., The Chas. H.**
Portland, Ore.
(See Adv. Index Page 178)
- Portland Seed Co.
Portland, Ore.
- Routledge Seed & Floral Co.
Portland, Ore.

PENNSYLVANIA

- Landreth Seed Co., D.**
Bristol, Pa.
(See Adv. Index Page 178)
- Schell, Inc., Walter S.**
Harrisburg, Pa.
(See Adv. Index Page 178)
- Ruist Co., Robert**
Philadelphia, Pa.
(See Adv. Index Page 178)
- Burpee Co., W. Atlee**
Philadelphia, Pa.
(See Adv. Index Page 178)
- Simon & Son, I. N.**
Philadelphia, Pa.
(See Adv. Index Page 178)
- Scott Co., I. W.
Pittsburgh, Pa.
- Hertzog, H. F.
Reading, Pa.

SOUTH CAROLINA

- Mixon Seed Co., W. H.
Charleston, S. C.
- Kirkland Seed Co., B. B.
Columbia, S. C.

SOUTH DAKOTA

- Gurney Seed & Nursery Co.
Yankton, S. D.

TENNESSEE

- Block Seed Co.
Chattanooga, Tenn.
- Mayo, D. R.
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Limestone, Tenn.
Buchanan Seed Company, R. B.
Memphis, Tenn.
Craig & Co., R. G.
Memphis, Tenn.
Mosby Seed Co., John
Memphis, Tenn.
Russell-Heckle Seed Co.
Memphis, Tenn.
Schwill & Co., Otto
Memphis, Tenn.
Hill & Co., Chas. A.
Nashville, Tenn.
Rose & Co., G. P.
Nashville, Tenn.
Collins Company, The
Winchester, Tenn.

TEXAS

Sullivan, J. G. (Onion Seed)
Asherton, Texas
(See Adv. Index Page 178)
Nicholson Seed Co., Robert
Dallas, Texas
Wise Seed Co., W. D.
El Paso, Texas
American Seed Co.
Fort Worth, Texas
Sherman Magnolia Seed Co.
Dallas, Texas.

UTAH

Carpenter Seed Co.
Provo, Utah
Bailey & Sons Co.
Salt Lake City, Utah
Filer Seed Co.
Salt Lake City, Utah
Porter-Walton Seed Co.
Salt Lake City, Utah

VIRGINIA
Wetsel Seed Co.
Harrisonburg, Va.
Tait & Sons, Geo.
Norfolk, Va.
Warren & Co., D. W.
Norfolk, Va.
Williams Seed Co.
Norfolk, Va.
Fairfax Seed Co.
Oakton, Va.
Diggs & Beadles
Richmond, Va.
Wood & Sons, T. W.
Richmond, Va.
Slate Seed Co. (Tobacco)
South Boston, Va.

WASHINGTON

Christianson & Co., Alf
Mt. Vernon, Wash.
Lilly Co., Chas. H.
Seattle, Wash.
(See Adv. Index Page 178)
Inland Seed Co.
Spokane, Wash.
Spokane Seed Co.
Spokane, Wash.

WISCONSIN

Knauf & Tesch Co.
Chilton, Wis.
Salzer Seed Co., J. A.
La Crosse, Wis.
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Manitowoc, Wis.
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Pharr, King
Catherine, Ala.

CALIFORNIA

Fish, Henry Berrien (Beans)
Carpinteria, Cal.
(See Adv. Index Page 178)

Golden State Seed Co.
Coyote, Cal.

Pieters-Wheeler Seed Co.
Gilroy, Cal.
(See Adv. Index Page 178)

Rohnert, Waldo
Gilroy, Cal.
(See Adv. Index Page 178)

Richard Diener Co., Inc.
Kentfield, Cal.

Aggeler & Musser Seed Co., Inc.
Los Angeles, Cal.
(See Adv. Index Page 178)

Bodger & Sons Co., John
El Monte, Los Angeles County, Calif.
(See Adv. Index Page 178)

Germain Seed & Plant Co.
Los Angeles, Cal.
(See Adv. Index Page 178)

Morris & Snow Seed Co.
Los Angeles, Cal.

Fosgate & Lion Seed Co.
Mountain View, Cal.

Ellery, H. E.
Oceanside, Calif.

Lagomarsino & Sons, F.
Sacramento, Cal.
(See Adv. Index Page 178)

Laughlin Seed Co. (Onion)
Sacramento, Cal.

Ward Seed Co., Wm. A.
Sacramento, Cal.
(See Adv. Index Page 178)

Bertrand Seed Co.
San Francisco, Calif.
(See Adv. Index Page 178)

McGill Seed Co., R. C.
San Francisco, Cal.
(See Adv. Index Page 178)

Morse & Co., C. C.
San Francisco, Cal.
(See Adv. Index Page 178)

Pacific Seed Growers
San Francisco, Calif.

Sherwood Seed Co.
San Francisco, Cal.

Braslan Seed Growers Co., Inc.
San Jose, Cal.
(See Adv. Index Page 178)

California Seed Growers Assn., Inc.
San Jose, Calif.

Kimberlin Seed Co.
San Jose, Cal.

Johansen-Winslow Seed Co.
San Luis Obispo, Cal.

Haven Seed Co. (Tomato)
Santa Ana, Cal.
(See Adv. Index Page 178)

Henry Fish Seed Co. (Beans)
Santa Barbara, Calif.
(See Adv. Index Page 178)

Martin, Harry
Stockton, Cal.

Standard Seed Farms Co.
Stockton, Cal.
(See Adv. Index Page 178)

Hogue-Kellogg Co.
Ventura, Cal.
(See Adv. Index Page 178)

CANADA

Hogg & Lytle, Ltd.
Toronto, Ont., Canada

Hume & Sons, John
Port Hope, Ont., Canada

Morrow Seed Co. (Peas and Beans)
Toronto, Ont., Canada
(See Adv. Index Page 178)

Steele, Briggs Seed Co., Ltd.
Toronto, Canada.
(See Adv. Index Page 178)

COLORADO

Franklin, A. L. (Onions)
Delta, Colo.

Barteldes Seed Co. (Beans)
Denver, Colo.

Grand Junction Seed Co.
Grand Junction, Colo.
(See Adv. Index Page 178)

Balcom Seed Co. (Beans)
Greeley, Colo.

La Junta Trading Co., The
La Junta, Colo.

Wiesel Seed Co. (Beans and Vine Seeds)
Pueblo, Colo.

Blotz-Henneman Seed Co.
Rocky Ford, Colo.

Burrell, D. V.
Rocky Ford, Colo.

Ebbert Seed Co.
Rocky Ford, Colo.

Garwood & Woodside (Cantaloupe)
Rocky Ford, Colo.

James, R. H.
Rocky Ford, Colo.

Palmer Seed Co.
Rocky Ford, Colo.

Ryan Bros.
Rocky Ford, Colo.

Robinson Seed Co., The J. C.
Rocky Ford, Colo.
(See Adv. Index Page 178)

Gauger, J. E.
Swink, Colo.

CONNECTICUT

Woodruff & Sons, F. H.
Milford, Conn.

Associated Seed Growers, Inc.
New Haven, Conn.

Woodruff & Sons, S. D.
Orange, Conn.
(See Adv. Index Page 178)

Comstock, Ferre & Co.
Wethersfield, Conn.
(See Adv. Index Page 178)

Hart Seed Co., Chas. C.
Wethersfield, Conn.
(See Adv. Index Page 178)

DELAWARE

Boggs & Sons, Caleb
Cheswold, Del.

FLORIDA

Coxetter, S. V. (Melon)
Lloyd, Fla.

Taylor Seedsman, Inc., H. M. (Watermelon)
Lloyd, Fla.
(See Adv. Index Page 178)

Willie & Son, J. J. (Watermelon)
Lloyd, Fla.

Evans Seed Co.
Monticello, Fla.

Gilbert, D. H. (Watermelon)
Monticello, Fla.

Morris, W. M. (Watermelon)
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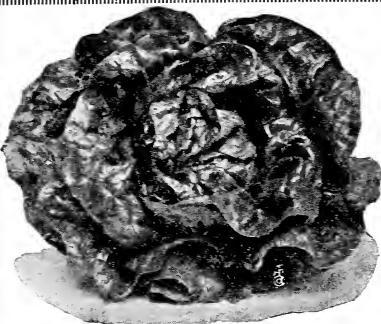
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Arrington Co., H. H. (Okra)
Rome, Ga.

IDAHO

Cornell Seed Ranch
Middleton, Idaho
Crookham & Co.
Caldwell, Idaho
Hodge, G. D. (N. Y. Head Lettuce Seed)
Moscow, Idaho
Washburn-Wilson Seed Co.
(Peas and Beans)
Moscow, Idaho
(See Adv. Index Page 178)
Idaho Equity Exchange (Lettuce)
Nampa, Idaho

ILLINOIS

Barnard Co., W. W.
Chicago, Ill.
(See Adv. Index Page 178)
Leonard Seed Co.
Chicago, Ill.
(See Adv. Index Page 178)
Rogers Bros. Seed Co. (Peas and Beans)
Chicago, Ill.
(See Adv. Index Page 178)
Vaughan's Seed Store
Chicago, Ill.
Condon Bros.
Rockford, Ill.
(See Adv. Index Page 178)

INDIANA

Crabbs Reynolds Taylor Co.
Crawfordsville, Ind.

IOWA

Hoopes & Co., J. E.
Muscatine, Iowa
Sioux City Seed Co.
Sioux City, Iowa

KANSAS

Burg, A. H. (Vine Seeds)
Lakin, Kan.
Barteldes Seed Co.
Lawrence, Kan.

MARYLAND

Blamberg Bros.
Baltimore, Md.
(See Adv. Index Page 178)

MASSACHUSETTS

Breck & Sons, Joseph
Boston, Mass.
Emerson Co., Thos. W.
Boston, Mass.

MICHIGAN

Adrian Seed Growing Co.
Adrian, Mich.
Hall-Stingle Co. (Tomato)
Adrian, Mich.
Lenawee Seed Co.
Blissfield, Mich.
Gebruder Dippe, A. G.
Detroit, Mich.
Ferry & Co., D. M.
Detroit, Mich.
Brown & Son, Inc., A. J. (Peas and Beans)
Grand Rapids, Mich.
Brown Seed Co., Alfred J. (Peas and Beans)
Grand Rapids, Mich.
(See Adv. Index Page 178)
Isbell Seed Co.
Jackson, Mich.
(See Adv. Index Page 178)

MINNESOTA

Northrup, King & Co.
Minneapolis, Minn.
(See Adv. Index Page 178)

MISSOURI

Corneli Seed Co.
St. Louis, Mo.
(See Adv. Index Page 178)
United States Seed Co.
St. Louis, Mo.

MONTANA

Gallatin Valley Seed Co.
Bozeman, Mont.
Western Seed Co., The
Hamilton, Mont.

NEBRASKA

Western Seed & Irrigation Co. (Vine Seed, Corn)
Fremont, Neb.
(See Adv. Index Page 178)
Coy Seed Co., Inc., The C. Herbert Valley, Neb.
(See Adv. Index Page 178)
Coy & Son, Chauncey P. (Vine)
Waterloo, Neb.
Robinson Seed Co., J. C. (Vine and Corn)
Waterloo, Neb.
(See Adv. Index Page 178)

NEW JERSEY

Riverview Farms
Bridgeton, N. J.
Shedaker & Son, B. D.
Burlington, N. J.
Hammell Seed Farms, Geo. Q.
Delanco, N. J.
Pedrick & Son, Geo. R.
Pedricktown, N. J.
(See Adv. Index Page 178)
Hurf, Edgar F.
Swedesboro, N. J.
(See Adv. Index Page 178)
True Type Seed Co.
Woodstown, N. J.

NEW YORK

Rice Seed Co., Jerome B.
Cambridge, N. Y.
(See Adv. Index Page 178)
Allen, Linnaeus
Cutchogue, Long Island, N. Y.
Lupton & Son, J. M.
Mattituck, L. I., N. Y.
(See Front Cover)
Herbst Brothers
New York, N. Y.
(See Adv. Index Page 178)
Madsen & Co., Thos.
New York, N. Y.
Stump & Walter Co.
New York, N. Y.
(See Adv. Index Page 178)
Suhr, E.
New York, N. Y.
(See Adv. Index Page 178)
Woodruff & Sons, S. D.
New York, N. Y.
(See Adv. Index Page 178)

NORTH DAKOTA

Will & Co., Oscar H.
Bismarck, N. D.

OHIO

Holmes Seed Co.
Canton, Ohio
Schilder Bros. (Onion Seed and Sets)
Chillicothe, Ohio
Quirk, John B.
North Madison, Ohio
Limeshale Seed Co.
Waldo, Ohio

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Aabling's Seed Farms, Inc.
Portland, Ore.
Portland Seed Co.
Portland, Ore.

PENNSYLVANIA

Landreth Seed Co., D.
Bristol, Pa.
(See Adv. Index Page 178)
Garrahan, C. E. (Celery)
Kingston, Pa.
Burpee Co., W. Atlee
Philadelphia, Pa.
(See Adv. Index Page 178)
Simon & Son, I. N.
Philadelphia, Pa.

SOUTH CAROLINA

Carolina Seed & Plant Co.
Florence, S. C.

SOUTH DAKOTA

Gurney Seed & Nursery Co.
Yankton, S. D.

TEXAS

Sullivan, J. G. (Onion Seed)
Asherton, Texas
(See Adv. Index Page 178)
Sherman Magnolia Seed Co.
Dallas, Texas
American Seed Co.
Fort Worth, Texas

UTAH

Filer Seed Co. (Beans and Peas)
Salt Lake City, Utah

VERMONT

Hawkins, Budd D.
Reading, Vt.

VIRGINIA

Wood & Sons, T. W.
Richmond, Va.
Slate Seed Co.
So. Boston, Va.

WASHINGTON

Tillinghast Seed Co., The
La Conner, Wash.
Aabling's Seed Farms, Inc.
Mount Vernon, Wash.
Christianson & Co., Alf
Mt. Vernon, Wash.
Lilly Co., Chas. H.
Seattle, Wash.
(See Adv. Index Page 178)
Northwest Seed Co.
Seattle, Wash.
Inland Seed Co.
Spokane, Wash.
Morrison Seed Co.
Spokane, Wash.

WISCONSIN

Knauf & Tesch Co. (Peas)
Chilton, Wis.
Rugowski, Seed Co., J. K.
Manitowoc, Wis.
Hansche Bros.
Racine, Wis.
Wisconsin Cabbage Seed Co. (Cabbage
Seed)
Racine, Wis.
(See Adv. Index Page 178)
Piper Produce Co.
Racine, Wis.
Rasmussen, N. A.
Sommers, Wis.

GROWERS FLOWER SEEDS

CALIFORNIA

Golden State Seed Co.
Coyote, Cal.
Rohnert, Waldo (Sweet Peas)
Gilroy, Cal.
(See Adv. Index Page 178)
Waller-Franklin Seed Co.
Guadalupe, Cal.
(See Adv. Index Page 178)
Diener Co., Inc., Richard
Kentfield, Cal.
Zvolanek, Ant. C. (Sweet Peas)
Lompoc, Cal.
Aggeler & Musser Seed Co.
Los Angeles, Calif.
(See Adv. Index Page 178)
Bodger & Sons Co., John (Asters, Zinnias)
El Monte, Los Angeles County, Calif.
(See Adv. Index Page 178)
Germain Seed & Plant Co.
Los Angeles, Cal.
(See Adv. Index Page 178)
Fosgate & Lion Seed Co.
Mountain View, Calif.
Morse & Co., C. C. (Sweet Peas)
San Francisco, Cal.
(See Adv. Index Page 178)
Schoorl, Adrian J.
San Francisco, Cal.
Braslan Seed Growers Co., Inc.
San Jose, Cal.
(See Adv. Index Page 178)
Johansen Winslow Seed Co.
San Luis Obispo, Cal.
MacDonald Seed Co., The Wm.
Santa Maria, Calif.
(See Adv. Index Page 178)

Hogue-Kellogg Co., The
Ventura, Cal.
(See Adv. Index Page 178)

CANADA

Steele, Briggs Seed Co., Ltd.
Toronto, Canada
(See Adv. Index Page 178)
Sunset Seed Co., Ltd.
Victoria, B. C., Canada

COLORADO

Colorado Seed Co. (Evergreen Tree Seed
and Columbines)
Denver, Colo.
Grand Junction Seed Co. (Zinnias)
Grand Junction, Colo.
(See Adv. Index Page 178)
Burrell, D. V.
Rocky Ford, Colo.

FLORIDA

Zangen, O. V.
Davenport, Fla.

IDAHO

Woodacres, Fred B. Wood
Boise, Idaho

ILLINOIS

American Bulb Company
Chicago, Ill.
(See Adv. Index Page 178)
Barnard Co., W. W.
Chicago, Ill.
(See Adv. Index Page 178)
Vaughan's Seed Store
Chicago, Ill.

GROWERS FLOWER SEEDS—Continued

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Gebruder Dippe, A. G.
Detroit, Mich.

MINNESOTA

Minnetonka Gladiolus Farms
R. 3, Hopkins, Minn

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Ayres Seed Co., S. Bryson
Kansas City, Mo.

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Forbes & Co., Alex
Newark, N. J.

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Cowee, Arthur
Berlin, N. Y.

John Lewis Childs Seed Co.
Floral Park, L. I., N. Y.

Page Seed Co.

Greene, N. Y.

(See Adv. Index Page 178)

Herbst Bros.

New York, N. Y.

(See Adv. Index Page 178)

Loechner & Co., Inc.

New York, N. Y.

(See Adv. Index Page 178)

Stumpp & Walter Co.

New York, N. Y.

(See Adv. Index Page 178)

Vaughan's Seed Store

New York, N. Y.

Vick's Sons, James

Rochester, N. Y.

NORTH DAKOTA

Will & Co., Oscar H.
Bismarck, N. D.

OHIO

McCullough Seed Co., The J. Chas.
Cincinnati, Ohio

OREGON

Ellis, Mrs. Merton G. (Pansy)
Canby, Ore.

(See Adv. Index Page 178)

Steele's Pansy Gardens (Pansy)
Portland, Ore.

PENNSYLVANIA

Landreth Seed Co., D.
Bristol, Pa.

(See Adv. Index Page 178)

Burpee Co., W. Atlee

Philadelphia, Pa.

(See Adv. Index Page 178)

SOUTH DAKOTA

Gurney Seed & Nursery Co.
Yankton, S. D.

TENNESSEE

Snapp & Sons, J. P.
Limestone, Tenn.

TEXAS

Nicholson Seed Co., Robt.
Dallas, Texas

VERMONT

Hawkins, Budd D.
Reading, Vt.

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Toole, W. A.
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Rugowski Seed Co., J. K.
Manitowoc, Wis.

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Brunnings, Pty., Ltd., F. H.
Melbourne, Australia

Law, Somner & Co.
Melbourne, Australia

Peterson Bros. & Craig, Ltd.
Brisbane, Queensland, Australia

Railton & Co.
Melbourne, Australia

Shepherd & Sons, Ltd.
Sydney, Australia

Yates & Co., Arthur
184 Sussex St.
Sydney, N. S. W., Australia

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Alonso, Juan P.
Teneriffe, Canary Islands

Dorta, C. Garcia (Onion Seed)
Teneriffe, Canary Islands

Varela, Frederico C.
Teneriffe, Canary Islands

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Prague, Czechoslovakia

Grunberger, A. M.
Trebic, Czechoslovakia

Loewenthal Brothers
Brno, Czechoslovakia

Schon, Jacob S., Ltd.
Brünn, Czechoslovakia

Vanek, Heinrich
Prague, Czechoslovakia

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Danielsen, E., & Larsen, A. S.
Nakskov, Denmark

Dansk Frokultur
Kerteminde, Denmark

Dreyer Fr.
Aarhus, Denmark

Froavl Ostergaard
Horsens, Denmark

Frocontorst
Kolding, Denmark

Frokompagniet, A. S.
Maribo, Denmark

Hansen, A. (Cauliflower and Cabbage)
Kastrup, Amager, Denmark

(See Adv. Index Page 178)

Hartmann & Co., Hjalmar
Copenhagen, Denmark

Helm-Petersen Co., J. C.
Aarhus, Denmark

Hoffding, N. F.
Copenhagen, Denmark

Krogh, A.
Odense, Denmark

Madsen & Co., Thos.
Slagelse, Denmark

Nissen, Fr.
Copenhagen, Denmark

Ohlsen's Enke, J. E.
Linnegade 14, Copenhagen, Denmark

(See Adv. Index Page 178)

Olsen, Chr. (Cauliflower, Cabbage)
Odense, Denmark

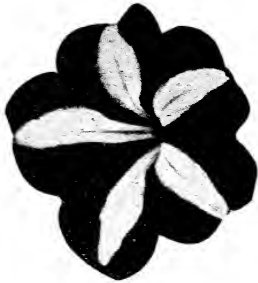
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(See Adv. Index Page 178)
- CHINA**
- Manshu Nosan Shokai, Inc.**
Dairen, So. Manchuria, China
(See Adv. Index Page 178)
- ENGLAND**
- Brown & Co., D. T.
Poulton-Le-Fylde, Lancashire, Eng-
land
- Bunting & Co., G. A. (Garden and Flower
Seeds)
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Ormskirk, England
- Cooper, Taber & Co., Ltd.
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- Daniels, C. S., & Son
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- Harrison & Sons
Leicester, England
- Hurst & Son
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Boston, England
- Kelway & Son**
Langport, Somerset, England
(See Adv. Index Page 178)
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(See Adv. Index Page 178)
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nip)
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Exeter, England
- Ward & Co.
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St. Remyde Provence, France
- Blanc, Jules
Jonquieres (Vaucluse), France
- Boret, Victor
Saumur, France
- Chauvet & Bonnet
Le Thor (Vaucluse), France
- Clause, L.
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France
- Davy
Juvisy, Seine et Oise, France
- Denaiffe & Fils
Carigan (Ardennes), France
- Desbois, A.
Grain sur l'Authion, France
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Avignon, France
- Fontaine, Freres
Bourg Achard (Eure), France
- Camut & Imbach
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St. Saturnin-lez-Avignon, Vaucluse,
France
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Angers, France
- Hamonet, A.
Angers, France
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Lyon-Villeurbanne, France
- Neese, Paul
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- Paquet, Jos.
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- Picard & Co., A.
Orleans, France
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Brain sur l'Anthion, France
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La Pyramide-Trelaze (M. & L.),
France
- Rolland, Jacques
Nimes, France
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St. Remy-de-Provence, France
- Simon Louis Freres & Cie
Bruyeres-le-Chatel (S. & O.), France
- Tezier, Freres**
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(See Adv. Index Page 178)
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Cambrai (Nord), France
- Vilmorin Andreux & Co.
Paris, France
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- Benary, Ernest (Garden and Flower Seeds)**
Erfurt, Germany
(See Adv. Index Page 178)
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Berlin, Germany
- Buchner, A. G., Rudolf (Garden and Flower
Seeds)
Erfurt, Germany
- Buchner, A. G., Rudolf (Sugar Beet and
Mangel)
Erfurt, Germany
- Carl, Franz
Quedlinburg, Germany
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Bamberg, Germany
- Frapp, Leonhard
Krodpa in Thuringen, Germany
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Quedlinburg, Germany
- Grashoff, Martin
Quedlinburg, Germany
- Haage, Franz Anton
Erfurt, Germany
- Haage & Schmidt
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Mann, Otto

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Martin, Franz

Erfurt, Germany

Mette, Heintr

Quedlinburg, Germany

Mohrenweiser, Chr.

Altanweddingen, Germany

Noth, Johs, Jr.

Fischbach (Gotha), Germany

Pabst, Karl

Erfurt, Germany

Philipp & Co., H. O.

Hamburg, Germany

Robra, Carl

Aschersleben, Germany

Rosenfelder, Oskar

Bamberg, Germany

Sachs, David

Quedlinburg, Germany

Schmidt, J. C.

Erfurt, Germany

Terra, A. G.

Aschersleben, Germany

Trapp, Leonhard

Krolpa in Thuringen, Germany

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Bovenkarspel, Holland

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Hillegom, Holland

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Enkhuizen, Holland

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Spruijt & Co.

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Corn. Van Beusekom

Arnhem, Holland

Van den Berg Bros.

Naaldwyk, Holland

Van Der Veld, George

Lisse, Holland

Van Namen Bros.

Zwijndrecht, Holland

Van Waveren & Herzog, Ltd.

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Wijs & Zoon, J. B.

Amsterdam, Holland

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Zwaan & Van Der Molen, Inc.

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Kazar Brothers

Budapest, Hungary

Kertesz, Ludwig

Budapest, Hungary

Mauthner, Ltd., Edmund

Budapest, Hungary

(See Adv. Index Page 178)

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Budapest, Hungary

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Grimstad, Norway

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Indal

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Michelet, A.

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Kristiania, Norway

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Sandnes (Jaeren), Norway

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Warsaw, Poland

PORTO RICO

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Arecibo, P. R.

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RUSSIA

Amtorg Trading Corp.

Moscow, Russia

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SCOTLAND

Bell, Ltd., David

Leith, Scotland

Cross Seed Co., Ltd., Alexander

Glasgow, Scotland

Lawson & Son, Ltd., Peter

Edinburgh, Scotland

SWEDEN

Algot Holmberg & Son

Norrkoping, Sweden

Allmanna Svenska Utsadesaktiebolaget

Svalof, Sweden

Engstrom, Aktiebolaget Carl

Eslof, Sweden

Goteborgs Tradgardsforening

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NAMES OF FIELD SEEDS IN FOREIGN LANGUAGES

(Prepared by the U. S. Department of Agriculture)

ENGLISH	LATIN	GERMAN	FRENCH
Red clover.....	<i>Trifolium Pratense</i> ...	Rotklee; Wiesenklee..	Trèfle violet
Alsike clover.....	“ <i>hybridum</i> ..	Bastardklee	Trèfle hybride
White clover.....	“ <i>repens</i>	Wiessklee	Trèfle blanc
Crimson clover.....	“ <i>incarnatum</i> ..	Inkarnatklee	Trèfle incarnat
Biennial white sweet clover.....	<i>Melilotus alba</i>	weiser Steinklee.....	Trèfle de Bokhara
Lespedeza	<i>Lespedeza striata</i>	Japanischer Klee.....	Trèfle du Japan
Bur clover.....	<i>Medicago arabica</i>	rauher Schneckenklee..	Minette punaie
Alfalfa	<i>Medicago sativa</i>	Luzerne	Luzerne
Timothy	<i>Phleum pratense</i>	Timothygrass; Wie- senlieschgras	Flèole des prés
	<i>Agrostis alba or</i>		
Redtop	<i>Agrostis palustris</i> ...	Fioringras	Agrostide tracant
Orchard grass.....	<i>Dactylis glomerata</i> ..	Knaulgras	Dactyle pelotonné
Kentucky bluegrass..	<i>Poa pratensis</i>	Wiesenrispengras ...	Paturin des prés
Bermuda grass.....	<i>Cynodon dactylon</i>	echter Hundszahn....	Herbe des Bermudes
Brome grass.....	<i>Bromus inermis</i>	grannenlose Trespe..	Brome de Hongrie
Meadow Fescue....	<i>Festuca elatior</i>	Wiesenschwingel ...	Fêtuque des prés
Italian rye grass....	<i>Lolium multiflorum</i> ..	italienisches Raigras..	Raygrass d' Italie
Perennial rye grass..	<i>Lolium perenne</i>	englisches Raigras; Dauerlolch	Raygrass anglais
Hairy vetch.....	<i>Vicia villosa</i>	zottige Wicke; Sandwicke	Vesce velu
Spring vetch.....	<i>Vicia sativa</i>	Saatwicke	Vesce de printemps
Common millet.....	<i>Chaetochloa italica</i> ...	Echtehirse	Millet blanc rond ordinaire
German millet.....	<i>Chaetochloa italica</i> ...	Deutschehirse	Moha de Hongrie
Japanese millet.....	<i>Echinochloa</i> <i>frumentacea</i>	Huhnerhirse	Millet du Japan
Broomcorn millet....	<i>Panicum miliaceum</i> ..	Rispenhirse	Millet commun
Sorghums (Grain)..	<i>Holcus sorghum</i> *....	Mohrenhirse	Sorgho
Sorghums (Sweet)..	<i>Holcus sorghum</i>	Zuckermohrhirse ...	Sorgho sucré
Johnson grass.....	<i>Holcus halepense</i>	Aleppo-Mohrenhirse ..	Sorgho d' Alep.
Rape	<i>Brassica napus</i>	Raps	Colza
Wheat	<i>Triticum vulgare</i>	Weizen	Blés; Froment
Corn	<i>Zea mays</i>	Mais	Mais
Barley	<i>Hordeum vulgare</i>	Gerste	Orge
Oats	<i>Avena sativa</i>	Hafer	Avoines
Rye	<i>Secale cereale</i>	Roggen	Seigle
Flax	<i>Linum usitatissimum</i> ..	Leinsaat	Javard
Buckwheat	<i>Fagopyrum esculentum</i>	Buchweizen	Blé noir
Cotton	<i>Gossypium</i>	Baumwollpflanze ...	Cottonier
Canada field pea....	<i>Pisum arvense</i>	Felderbse; Saaterbse..	Pois des champs
Cowpeas	<i>Vigna sinensis</i> ..	Kuherbse	Dolique de Chine
Soybeans	<i>Soja max</i>	Sojabohne	Soja

*Other Latin names are *Sorghum sorghum* and *Andropogon sorghum*. *Holcus sorghum* is the name accepted by the Division of Botany, U. S. Department of Agriculture.

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(See Adv. Index Page 178)
- Barteldes Seed Co.
Lawrence, Kans.
- Bodger & Sons Co., John**
El Monte, Los Angeles County, Calif.
(See Adv. Index Page 178)
- Bolgiano Seed Co., J.
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- Bolgiano & Co., F. W.
Washington, D. C.
- Bonnewitz Wholesale Gardens
Van Wert, Ohio
- Brown Bulb Ranch
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- Bruce & Co., Ltd., John A.**
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(See Adv. Index Page 178)
- Buchanan Seed Company R F
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- Bulst Co., Robert**
Philadelphia, Pa.
(See Adv. Index Page 178)
- Burpee & Co., W. Atlee**
Philadelphia, Pa.
(See Adv. Index Page 178)
- Bushy Flower Gardens
Wake, Va.
- Childs Seed Co., John Lewis
Floral Park, L. I., N. Y.
- Clarke & Son, W. B.
San Jose, Calif.
- Cornell Seed Co.**
St. Louis, Mo.
(See Adv. Index Page 178)
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Magnolia, N. C.
- Cumberland Valley Nursery Co., Inc.
McMinnville, Tenn.
- Diener, Richard
Kentfield, Cal.
- Enid Floral Co.
Enid, Okla.
- Perry Seed Co.
Boston, Mass.
- Forbes & Co., Alex.
Newark, N. J.
- Gelser Bros.
Dalton, N. Y.
- General Bulb Co.
Chicago, Ill.
- Gibbs, W. Thurston
Morocco, Ind.
- Gill Bros. Seed Co. (Dahlia)
Portland, Ore.
- Goodhold Floral Gardens
Mentor, Ohio
- Grootendorst, A. M.
Benton Harbor, Mich.
- Henderson & Co., Peter**
New York City, N. Y.
(See Adv. Index Page 178)
- Holland-American Seed Co.
Grand Rapids, Mich.
- Holst-Knudsen, S.
New York, N. Y.
- Humphrey, John B.
Petaskala, Ohio
- Hunter, S. B.
Magnolia, N. C.
- Hyde Co., H. A.
Watsonville, Calif.
- Imperial Gardens
Sugarland, Texas
- radiant Dahlia Farms
New Albany, Indiana
- Ireland, Z. Jay**
Pleasant Valley, N. Y.
(See Adv. Index Page 178)
- Kunderd, A. E. (Gladiola)
Goshen, Ind.
- Lawler, George**
Gardenville, Tacoma, Wash.
(See Adv. Index Page 178)
- Leonard Seed Co.**
Chicago, Ill.
(See Adv. Index Page 178)
- Long, J. D.
Boulder, Colo.
- Long, W. P.
West Grove, Pa.
- McCullough's Sons Co., J. M.**
Cincinnati, Ohio
(See Adv. Index Page 178)
- McHutchison & Co.**
New York, N. Y.
(See Adv. Index Page 178)
- Main, Arthur B.
Santa Cruz, Calif.
- Market Gardeners Seed Co.**
Cincinnati, Ohio
(See Adv. Index Page 178)
- Meyer Seed Company
Baltimore, Md.
- Minnetonka Gladiolus Farms
R. 3, Hopkins, Minn.
- Morris & Snow Seed Co.
Los Angeles, Calif.
- Never Idle Gardens, Inc.
Davenport, Fla.
- North Star Nursery
Onarga, Ill.
- Norton, H. G.
Perry, Ohio
- Phelps, Will
Little York, Ill.
- Pinner & Co., Inc.
Suffolk, Va.
- Puget Sound Seed Co.
La Conner, Wash.
- Quality Seed & Bulb Co.
Chicago, Ill.
- Roos, Jelle
Concord, Mass.
- Routledge Seed & Floral Co.
Portland, Ore.
- Rugowski Seed Co., J. K.
Manitowoc, Wis.
- Rynveld & Sons, F.
New York City, N. Y.
- Schell, Inc., Walter S.**
Harrisburg, Pa.
(See Adv. Index Page 178)
- Schling Seedsmen, Inc., Max
New York, N. Y.
- Schoorl, Adrian J.
San Francisco, Calif.
- Schwake & Co., Inc., Chas.
New York, N. Y.
- Scott Co., I. W.
Pittsburgh, Pa.
- State Nursery & Seed Co.
Helena, Mont.
- Stumpp & Walter Co.**
New York City, N. Y.
(See Adv. Index Page 178)
- Swedberg Bros. Nurseries
Battle Lake, Minn.
- Templin-Bradley Co.
Cleveland, Ohio
- United Bulb Growers, Inc.
New York City, N. Y.
- Van Antwerp's Seed Store**
Mobile, Ala.
(See Adv. Index Page 178)

Lawler's BULBS

In Hundred or Car Lots

Soil and climate conditions of Washington plus careful stock selections enable me to offer popular varieties of such size, beauty and sturdy thrift that they create admiration and a ready demand wherever introduced.

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Immense quantities sold and sales increase each year. Cinnamon Vines pay big; they are sure to grow and sure to please and make friends. The tubers are nice and clean to handle, never rot, are easy to mail, require no packing and you can deliver them by mail, express or over your counters from November until June. Also a limited quantity of madeira vine tubers. Try them and be convinced. Electros supplied. Trade list and particulars free. Yours for more business.

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Pleasant Valley New York

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- Rarely Called-for Vegetables
- Choice Imported Flower Seed
- The Lesser-used Grasses

Stumpp & Walter Co
30-32 Barclay St., New York

BULBS, PLANTS AND MISCELLANEOUS SEEDS—Continued**BULBS—Continued**

Van Zonneveld Bros. & Philippo
New York City, N. Y.
Vaughan's Seed Store
Chicago, Ill.
Vick's Sons, James
Rochester, N. Y.
Vos & Son, P.
Grand Rapids, Mich.
Weller Nurseries Co.
Holland, Mich.
White Seed Co., Buxton
Elizabeth City, N. C.
Younkerman Seed Co.
Council Bluffs, Iowa
Zangen, O. V.
Davenport, Fla.

BULBS—FOREIGN DEALERS**FRANCE**

Blain, Felix
St. Remy de Provence, France
Rynveld & Cie
Ollioules, Var, France

GERMANY

Berham, Chr.
Stendal, Germany
Bernary, Ernst
Erfurt, Germany
Chehler, Carl
Halberstadt, Germany
Haage & Schmidt
Erfurt, Germany
Heinemann, F. C.
Erfurt, Germany
Hesse & Sohn, Rob.
Rieder am Hacz, Germany
Kaiser, Ferdinand
Eisleben, Germany
Klisning Sohn, C. L.
Barth, Germany
Leib, Wilhelm
Arnstadt, Germany
Lieban & Co.
Erfurt, Germany
Lorenz, Chr.
Erfurt, Germany
Pabst, Carl
Erfurt, Germany
Pape & Bergmann
Quedlinberg, Germany
Pflizer, Wilhelm
Stuttgart, Germany
Putz, Otto
Erfurt, Germany
Reine, Schoo & Co.
Fornosch-Holstein, Germany
Roemer, Friedrich
Quedlinberg, Germany
Schraeder, C. G.
Saltwedel, Germany
Stenger & Rotter
Erfurt, Germany
Wehranpfannig, A.
Quedlinberg, Germany
Wiegelt & Co.
Erfurt, Germany

HOLLAND

Byvoet Bros.
Overeen, Haarlem, Holland
De Graaf Bros.
Noordwyk, Holland
De Graaf & Sons, H.
Lisse, Holland
Eldering & Son, W. J.
Overeen, Holland
Grullemans & Sons, J. J.
Lisse, Holland
Jonkheer & Sons, C.
Hillegom, Holland
Segers Brothers
Lisse, Holland
Segers, Gerrit
Lisse, Holland
Steelman & Sons, C. J.
Sassenheim, Holland

Tegelaar Bros.
Lisse, Holland
Van Der Schoot, R. A.
Hillegom, Holland
Van Der Veld, George
Lisse, Holland
Van Waveren Stamhois Nurseries
Hillegom, Holland

JAPAN

Bunting & Co., Isaac
Yokohama, Japan
Sakata & Co., T.
Yokohama, Japan

SWEDEN

Algot Holmberg & Sen
Norrkoping, Sweden

NURSERY STOCK**Allen Nurseries**

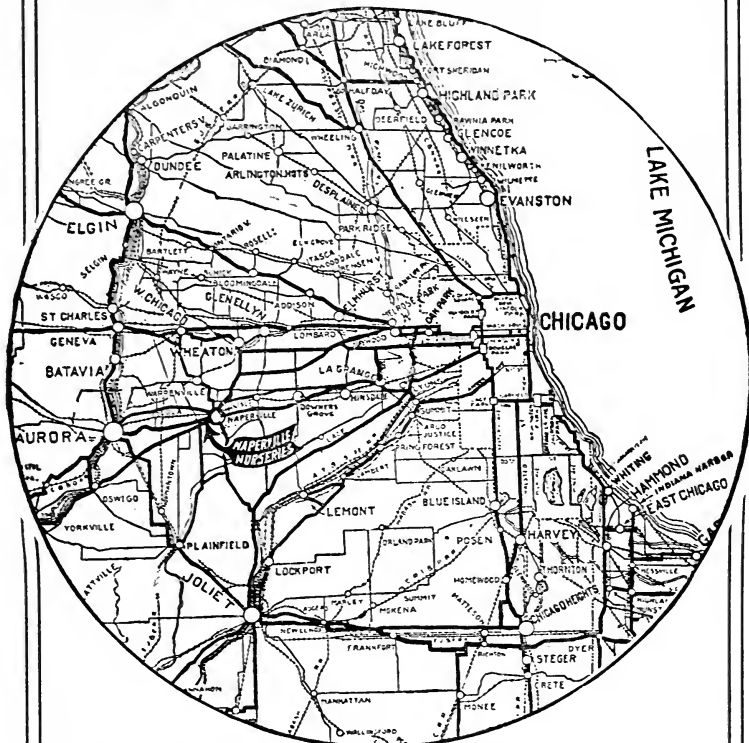
Seaford, Del.
Bohlender Sons, Peter
Tippecanoe City, Ohio
Campbell, F. W. (Ornamentals)
Detroit, Mich.
Clark, John H. (Ornamentals)
Chariton, Iowa
Clinton Falls Seed & Nursery Co.
Owatonna, Minn.
Crawford Gardens (Peonies, Irises and
Perennials)
La Porte, Ind.
Cutler & Downing Co.
Benton Harbor, Mich.
Ernst Nurseries
Eaton, Ohio
Forest Nursery Co.
McMinnville, Tenn.
Gardens of the Blue Ridge
Ashford, McDowell Co., No. Carolina
Harmel Peony Co.
Berlin, Md.
Harrison Nursery Co.
York, Nebr.
Hill Nursery, D., The
Dundee, Ill.
Naperville Nurseries
Naperville, Ill.
(See Adv. Index Page 178)
North-Eastern Forestry Co., The
Cheshire, Conn.
Northfield Seed & Nursery Co.
Northfield, Minn.
Piedmont Forestry Co.
Bound Brook, N. J.
Smith Co., W. & T.
Geneva, N. Y.
Sonderegger Nurseries & Seed House
Beatrice, Nebr.
State Nursery & Seed Co.
Helena, Mont.
Storrs & Harrison Co.
Painesville, Ohio
Thomas, W. W.
Anna, Ill.
Weaver Gardens Co., The
Wichita, Kans.
Westminster Nurseries, The
Westminster, Md.
Willadean Nurseries, Inc.
Sparta, Ky.

CACTI

Texas Cacti Co.,
El Paso, Texas

EVERGREENS

Conwell, Inc., H. Ernest
Milton, Dela.
Cumberland Valley Nursery Co., Inc.
McMinnville, Tenn.



CENTRAL LOCATION

We Offer the Best of Service
Trees, Evergreens, Shrubs
Vines and Perennials
Rock Garden Plants

300 Acres Devoted to Growing of First Class
Ornamental Nursery Stock

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Telephone Naperville One

NAPERVILLE NURSERIES

NAPERVILLE, DU PAGE COUNTY, ILLINOIS

ESTABLISHED IN 1866

BULBS, PLANTS AND MISCELLANEOUS SEEDS—Continued

EVERGREENS—Continued

- Naperville Nurseries**
Naperville, Ill.
 (See Adv. Index Page 178)
- North-Eastern Forestry Co.**
 Cheshire, Conn.
- Rosebank Nursery Co.**
 Huntsville, Ala.
- Schmieske, Wm. F.**
 Binghamton, N. Y.
- State Nursery & Seed Co.**
 Helena, Mont.
- Swedberg Bros. Nurseries**
 Battle Lake, Minn.

FERNS

- Ferndale Nursery**
 Askov, Minn.

FRUIT TREES

- Cumberland Valley Nursery Co., Inc.**
 McMinnville, Tenn.
- Lake View Nurseries**
 Rochester, N. Y.
- May Seed & Nursery Co.**
 Shenandoah, Iowa
- Munson Nurseries**
 Denison, Texas
- Potter Sales Nursery Co.**
 McMinnville, Tenn.
- Rosebank Nursery Co.**
 Huntsville, Ala.
- Smithville Nursery Co.**
 Smithville, Tenn.

FRUIT—SMALL

- Cumberland Valley Nursery Co., Inc.**
 McMinnville, Tenn.
- Schifferli & Son Nurseries, The F. E.**
 Fredonia, N. Y.

GRAFTING WAX

- Clark & Son, Walter E.**
 Milford, Conn.
 (See Adv. Index Page 178)

GRAPE VINES

- Munson Nurseries**
 Denison, Texas

ORNAMENTALS

- Brainard's Nurseries & Greenhouses, Inc.**
 Des Moines, Iowa
- Cumberland Valley Nursery Co., Inc.**
 McMinnville, Tenn.
- Naperville Nurseries**
Naperville, Ill.
 (See Adv. Index Page 178)

PERENNIALS

- Locust Valley Dahlia Farms**
 Locust Valley, L. I., N. Y.
- Naperville Nurseries**
Naperville, Ill.
 (See Adv. Index Page 178)

ROSE BUSHES

- Howard Rose Co., Inc.**
 Hemet, Calif.
 (See Adv. Index Page 178)

WATER PLANTS

- Terrell's Aquatic Farm**
 Oshkosh, Wis.

ONION SETS

- Algers, K. W.**
 Crystal City, Tex.
- Anderson, Wm. B.**
 Norwood Park, Chicago, Ill.
- Barnard Co., The W. W.**
 Chicago, Ill.
 (See Adv. Index Page 178)
- Blamberg Bros., Inc.**
 Baltimore, Md.
 (See Adv. Index Page 178)

- Bolgiano Seed Co., The J.**
 Baltimore, Md.
- Bruce & Co., Ltd., John A.**
 Hamilton, Ont., Canada
 (See Adv. Index Page 178)
- Buist Co., Robert**
 Philadelphia, Pa.
 (See Adv. Index Page 178)
- Chesmore Seed Co.**
 St. Joseph, Mo.
- Chester & Co., H. H.**
 Chicago, Ill.
- Comstock Ferre & Co.**
 Wethersfield, Conn.
 (See Adv. Index Page 178)
- Condon Bros. Seedsmen**
 Rockford, Ill.
 (See Adv. Index Page 178)
- Cornell Seed Co.**
 St. Louis, Mo.
 (See Adv. Index Page 178)
- Davenport Seed Co.**
 Davenport, Iowa
- Grand Junction Seed Co.**
 Grand Junction, Colo.
 (See Adv. Index Page 178)
- Gridley Maxon Co.**
 Chicago, Ill.
- Hafendorfer, G. J.**
 Greeley, Colo.
- Hall Seed Co.**
 Louisville, Ky.
 (See Adv. Index Page 178)
- Harden, Hamilton & Lewman**
 Louisville, Ky.
- Hart Seed Co., Chas. C.**
 Wethersfield, Conn.
 (See Adv. Index Page 178)
- Hayes Labish Farms**
 Salem, Oregon
- Hollenbach, Peter**
 Chicago, Ill.
 (See Adv. Index Page 178)
- Hunkel Co., G. H.**
 Milwaukee, Wis.
- Johnson, Inc., J. Oliver**
 Chicago, Ill.
- Kaufmann's Onion Set Warehouse**
 South Holland, Ill.
- Landreth Seed Co., D.**
 Bristol, Pa.
 (See Adv. Index Page 178)
- Leonard Seed Co.**
 Chicago, Ill.
 (See Adv. Index Page 178)
- Louisville Seed Co.**
 Louisville, Ky.
- Mangelsdorf Seed Co.**
 Atchison, Kan.
- Manitowoc, Seed Co.**
 Manitowoc, Wis.
- Meeter & Son, John**
 Lansing, Ill.
- Nebraska Seed Co.**
 Omaha, Neb.
- Northrup, King & Co.**
 Minneapolis, Minn.
 (See Adv. Index Page 178)
- Ohio Valley Seed Co.**
 Evansville, Ind.
- Owensboro Plant & Seed Co.**
 Owensboro, Ky.
- Page Seed Co.**
 Greene, N. Y.
 (See Adv. Index Page 178)
- Peerbolte Co., Peter**
 South Holland, Ill.
- Portland Seed Co.**
 Portland, Ore.
- Quincy Seed Co.**
 Quincy, Ill.
- Rau, Lawrence**
 Chicago, Ill.
- Rubio, Ernesto**
 Arecibo, Porto Rico
 (See Adv. Index Page 178)

TROWBRIDGE GRAFTING WAX

"OLDEST and BEST"

Used by Nurserymen and
Best Horticulturists from
Coast to Coast for over 60
years. An easy seller.

Ask us about the new elastic
paraffin wax, "Parapin Wax."
It protects orchard trees against
attacks by mice and borers.
Can graft in hottest climates
by this new method.

Get our Price on Melting Pots

WALTER E. CLARK & SON
Milford Connecticut



ROSE BUSHES

DORMANT FIELD-GROWN
MAIL ORDER SIZES

1 1/2 Grade Hybrid Teas
14 to 18 Inches, 2 Branches

WRITE FOR LIST, ALSO
Showing Full Assortment No. 1 Grade
Winter Harvest

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HEMET CALIFORNIA

ONION SETS

*When in the market
for choice sets be sure
that you write or
wire us.*

BERMUDAS & PEARLS
for Fall 1929

**PETER
HOLLENBACH
SEEDS**

808 W. Lake Street
CHICAGO

SEEDS ONION SETS

Seed farms located in
various States. We pro-
duce all standard varie-
ties and specialties for
the **WHOLESALE
TRADE.**

Established in 1865

Correspondence solicited
on both spot and future
Garden Seeds

S. D. WOODRUFF & SONS
ORANGE CONNECTICUT

BULBS, PLANTS AND MISCELLANEOUS SEEDS—Continued

ONION SETS—Continued

- Reeve, Geo.
Chicago, Ill.
Schilder Bros.
Chillicothe, Ohio
Sherman-Magnolia Seed Co.
Dallas, Texas
Snapp & Sons, J. P.
Limestone, Tenn.
Spokane Seed Co.
Spokane, Wash.
Standard Seed Co.
Kansas City, Mo.
Steele, Briggs Seed Co.
Toronto, Canada
(See Adv. Index Page 178)
Sullivan, J. G.
Asherton, Tex.
(See Adv. Index Page 178)
Van Antwerp's Seed Store
Mobile, Ala.
(See Adv. Index Page 178)
Van Duersen Bros.
Riverdale, Ill.
Vaughan's Seed Store
Chicago, Ill.
Waterman, Chas.
So. Holland, Ill.
Wetsel Seed Co.
Harrisonburg, Va.
White & Sons, D. A.
Salem, Ore.
Wood, Stubbs & Co.
Louisville, Ky.
Woodruff & Co., F. H.
Milford, Conn.
Woodruff & Sons, S. D.
Orange, Conn.
(See Adv. Index Page 178)
Woodruff & Sons, S. D.
New York, N. Y.
Younkerman Seed Co.
Council Bluffs, Iowa

PLANTS—FLOWER

- Alexander, J. K.
Bridgewater, Mass.
Allen Nurseries
Seaford, Del.
American Bulb Company
Chicago, Ill.
(See Adv. Index Page 178)
American Rose & Plant Co.
Springfield, Ohio
Brazil Dahlia Farm
Brazil, Ind.
Bushy Flower Gardens
Bushy, Va.
Chautauqua Flower Fields
Bemis Point, N. Y.
Childs Seed Co., John Lewis
Floral Park, L. I., N. Y.
Cook Seed Co.
Waterford, N. Y.
Diener Co., Inc., Richard
Kentfield, Calif.
Perry Seed Co.
Boston, Mass.
Hardy Plant & Pansy Farm
Baraboo, Wis.
Hyde Co., H. A.
Watsonville, Calif.
Ireland, Z. Jay
Pleasant Valley, N. Y.
(See Adv. Index Page 178)
Lind Plant Farms
Cotulla, Texas
Long Island Dahlia Gardens
Hicksville, L. I., N. Y.
McGregor Bros. Co.
Springfield, Ohio
McHutchison & Co.
New York, N. Y.
(See Adv. Index Page 178)
Merritt, John W.
Farmingdale, L. I., N. Y.
Myers & Scott
Van Buren, Ark.

- Onarga Nursery Co.
Onarga, Ill.
Portland Seed Co.
Portland, Ore.
Rosebank Nursery Co.
Huntsville, Ala.
Roudabush & Co., W. P.
Wilmington, N. C.
Schaumburg, Henry
Hammon, N. J.
Schmeiske, Wm. F.
Binghamton, N. Y.
Skidelsky & Co., S. S.
New York City, N. Y.
Smith Plant Farm, E. C.
Milano, Texas
State Nursery & Seed Co.
Helena, Mont.
Texas Seed & Plant Co.
Dallas, Texas
Vick's Sons, James
Rochester, N. Y.
Weller Nurseries Co.
Holland, Mich.

VEGETABLE PLANTS

- Albany Plant & Seed Co.
Albany, Ga.
Alger, K. W. (Grower)
Crystal City, Texas
Alvy, Jack
Van Buren, Ark.
Amzi Godden Seed & Grain Co., Inc.
Birmingham, Ala.
Blackshear Plant Co.
Blackshear, Ga.
Bolgiano & Co., F. W.
Washington, D. C.
Bruce Wholesale Plant Co.
Waldosta, Ga.
Carolina Seed & Plant Co.
Florence, S. C.
Clifton, J. A.
Russellville, Ark.
Council Co., J. P.
Franklin, Va.
Council Seed Co.
Franklin, Va.
Perry Seed Co.
Boston, Mass.
Fulwood, P. D.
Tifton, Ga.
Geraty & Co., Wm. C.
Yonges Island, S. C.
Grand Junction Seed Co.
Grand Junction, Colo.
(See Adv. Index Page 178)
Grossmann & Son, W.
Petersburg, Va.
Hammell Seed Farms, Geo. Q.
Delanco, N. J.
Harvey Seed Co.
Montgomery, Ala.
Hollywood Farms
Pavo, Ga.
Hoopes Co., J. E. (Plants and Asparagus
Roots)
Muscatine, Iowa
Jefferson Farms, The
Albany, Ga.
Jouannet, Alfred
Mt. Pleasant, S. C.
Kille, Willard B.
Swedesboro, N. J.
Ledden & Son, Orol
Sewell, N. J.
Lehmann's Seed Store
Baton Rouge, La.
Leonard, I. & J. L.
Iona, N. J.
Lind Plant Farm
Cotulla, Texas
May & Son, Inc., W. H.
Alexandria, Va.
Mixson Seed Co., W. H.
Charleston, S. C.

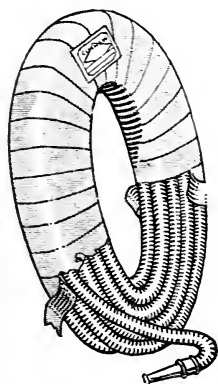
Additional Profits

— for the Dealer

Satisfaction

— for the Customer

WITH DIAMOND GARDEN HOSE



Wrapped in handy packages of 25-foot and 50-foot lengths, coupled ready for use.

Because:

1. It is made of first-class materials throughout; tough rubber, strong cotton braids, water-cured under high pressure.
2. It will stand all sorts of wear and give satisfactory service for many seasons.
3. You can put in a stock with a small investment. Only one size is necessary— $\frac{5}{8}$ ".
4. Each package carries its own advertising, and when displayed is practically self-selling.
5. Free advertising helps are furnished with the hose—electros, blotters, postcards, letterheads, telephone slips, etc.

DO NOT OVERLOOK THIS OPPORTUNITY TO ADD TO YOUR 1929 PROFITS

Write our nearest Branch for full information and prices

THE DIAMOND RUBBER COMPANY, Inc.

Dept. H.

Akron, Ohio

Atlanta
Chicago

Boston
Dallas

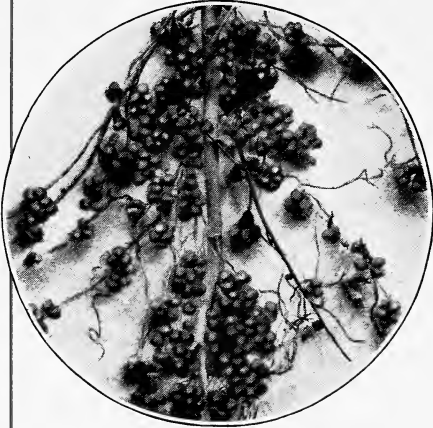
Kansas City
Los Angeles

New York
Seattle

Philadelphia
San Francisco

Diamond

GARDEN HOSE



*It will pay you
well*

*to display
and sell*

Mulford Cultures

FOR LEGUMES

Every sale of legume seeds should include Mulford Cultures. They make satisfied customers and repeat orders, not only for cultures but for seeds as well.

Mulford Cultures are prepared and tested in the world's largest Biological Laboratories, with the utmost scientific care and skill. Economical and easy to use. The sealed bottle insures purity.

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Increase Your Satisfied Customers

H. K. MULFORD COMPANY

PHILADELPHIA, U. S. A.

BULBS, PLANTS AND MISCELLANEOUS SEEDS—Continued

VEGETABLE PLANTS—Continued

Myers Seed & Plant Co.
Tifton, Ga.
Old Dominion Plant Co.
Franklin, Va.
Omega Plant Co.
Omega, Ga.
Owensboro Plant & Seed Co.
Owensboro, Ky.
Ozark Seed & Plant Co.
Nashville, Ark.
Capital Fuel & Feed Co.
Phoenix, Ariz.
Piedmont Plant Co.
Albany, Ga.
Riverview Farms
Bridgeton, N. J.
Rochelle & Sons, F. W.
Chester, N. J.
Rochelle, Paul F.
Morristown, N. J.
Ross Bros. Seed Co.
Wichita, Kan.
Roudabush & Co., W. P.
Wilmington, N. C.
Schroer Plant Co.
Valdosta, Ga.
Stevenson, G. W.
Fordyce, Ark.
Stockton Seed Co.
Stockton, Cal.
Tidewater Plant Co.
Franklin, Va.
Tingle, Leamon G.
Pittsville, Md.
Todd, Geo. M.
Greensboro, N. C.
Van Antwerp's Seed Store
Mobile, Ala.
(See Adv. Index Page 178)
Vick's Sons, James
Rochester, N. Y.
Wards Gardens
Mobile, Ala.
Williams, W. W.
Quitman, Georgia
Wood & Son, T. W.
Richmond, Va.
Wyatt & Sons Co., Job P.
Raleigh, N. C.
Zeplitz, Rolf
Lima, Ohio

SEEDS—MISCELLANEOUS

CANARY SEED

Blamberg Bros.
Baltimore, Md.
(See Adv. Index Page 178)
Cornell Seed Co.
St. Louis, Mo.
(See Adv. Index Page 178)
Crawford, Keen & Co.
New York City, N. Y.
Curtin Company, George L.
New York, N. Y.
Dickinson Co., Albert
Chicago, Ill.
German, Gale T.
New York, N. Y.
Herbst Bros.
New York City, N. Y.
(See Adv. Index Page 178)
Hinton & Co., Inc.
New York, N. Y.
Johnson, Inc., J. Oliver
Chicago, Ill.
Justrite Co., The
Milwaukee, Wis.
Kaufmann's Onion Set Warehouse
South Holland, Ill.
Kellogg-Kelly Seed Co.
St. Joseph, Mo.

Magnesia Products Co.
Milwaukee, Wis.
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
Nungesser-Dickinson Seed Co.
New York, N. Y.
Philadelphia Seed Co.
Philadelphia, Pa.
(See Adv. Index Page 178)
Radwaner Seed Co., I. L.
New York, N. Y.
(See Adv. Index Page 178)
Scarlett & Co., Wm. G.
Baltimore, Md.
Standard Seed Co.
Kansas City, Mo.
Von Damm, F. A.
Brooklyn, N. Y.

LAWN GRASS SEED

American Seed Co.
Detroit, Mich.
Barnard Co., W. W.
Chicago, Ill.
(See Adv. Index Page 178)
Bent Grass Co.
Hoopeston, Ill.
Bernham, Inc.
New York, N. Y.
Brady's Nursery
White Bear Lake, Minn.
Cornell Seed Co.
St. Louis, Mo.
(See Adv. Index Page 178)
Craver-Dickinson Seed Co.
Buffalo, N. Y.
Dickinson Co., Albert
Chicago, Ill.
Doughten Seed Co.
Jersey City, N. J.
Holst-Knudsen, S.
New York, N. Y.
Hunkel Co., G. H.
Milwaukee, Wis.
Johnson, Inc., J. Oliver
Chicago, Ill.
Kellogg-Kelly Seed Co.
St. Joseph, Mo.
Leonard Seed Co.
Chicago, Ill.
(See Adv. Index Page 178)
Louisville Seed Co.
Louisville, Ky.
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
Nungesser-Dickinson Seed Co.
New York City, N. Y.
O. & M. Seed Co., The
Green Springs, Ohio
(See Adv. Index Page 178)
Philadelphia Seed Co.
Philadelphia, Pa.
(See Adv. Index Page 178)
Scarlett & Co., Wm. G.
Baltimore, Md.
Scott Co., I. W.
Pittsburgh, Pa.
Seaboard Seed Co.
Philadelphia, Pa.
(See Adv. Index Page 178)
Sevin-Vincent Seed Co.
San Francisco, Calif.
Steinhardt & Nordlinger
New York, N. Y.
Templin-Bradley Co.
Cleveland, Ohio
Williamson, Garfield
New York City, N. Y.

POP CORN

American Popcorn Co.
Sioux City, Iowa
Dickinson Co., Albert
Chicago, Ill.
Cornell Seed Co.
St. Louis, Mo.
(See Adv. Index Page 178).
Tuttle Popcorn Co., R. M.
Spencer, Iowa

BULBS, PLANTS AND MISCELLANEOUS SEEDS—Continued

POTATO SEED

Interstate Seed & Grain Co.
 Fargo, N. D.
 (See Adv. Index Page 178)

SEED POTATOES

Barnes Co., O. J.
 Grand Forks, N. D.
 Cochrane Seed Co., T. H.
 Portage, Wis.
 Davenport Seed Co.
 Davenport, Iowa
 Hickox-Rumsey Co.
 Batavia, N. Y.
 Hunkel Co., G. H.
 Milwaukee, Wis.
 Hyde Co., H. A.
 Watsonville, Calif.
 Interstate Seed & Grain Co.
 Fargo, N. D.
 (See Adv. Index Page 178)
 Mahaffey Co., The
 Chicago, Ill.
 May & Co., Inc., W. H.
 Alexandria, Va.
 Miller & Co., Albert
 Chicago, Ill.
 (See Adv. Index Page 178)
 Myers & Scott
 Van Buren, Ark.
 Owensboro Seed & Plant Co.
 Owensboro, Ky.
 Philadelphia Seed Co.
 Philadelphia, Pa.
 (See Adv. Index Page 178)
 Pinner & Co.
 Suffolk, Va.
 Portland Seed Co.
 Portland, Ore.
 Scarlett & Co., Wm. G.
 Baltimore, Md.
 Simmons Seed Co.
 Moorhead, Minn.
 Valker-Christensen Co.
 Minot, N. Dak.
 Van Antwerp's Seed Store
 Mobile, Ala.
 (See Adv. Index Page 178)
 Washburn-Wilson Seed Co.
 Moscow, Idaho
 (See Adv. Index Page 178)
 Woodruff & Sons, S. D.
 New York, N. Y.
 Woodruff & Sons, S. D.
 Orange, Conn.
 (See Adv. Index Page 178)

SEED CORN

Atlantic Seed Co., Inc.
 Philadelphia, Pa.
 Bernhard Seed Co., A.
 Parkston, S. D.
 Bomberger Seed Co.
 Modesto, Calif.
 Bowman Seed Co., The
 Concordia, Kan.
 (See Adv. Index Page 178)
 Bruns Seed Co.
 Sigourney, Iowa
 Cashman Seed Co.
 Owatonna, Minn.
 Clark & Sons, C. S.
 Wakeman, Ohio
 (See Adv. Index Page 178)
 Cochrane Seed Co., T. H.
 Portage, Wis.
 Coe Seed & Grain Co., D. O.
 Topeka, Kan.
 (See Adv. Index Page 178)
 Comstock, Ferre & Co.
 Wethersfield, Conn.
 (See Adv. Index Page 178)
 Cornell Seed Co.
 St. Louis, Mo.
 (See Adv. Index Page 178)

Council Bluffs Seed Co.
 Council Bluffs, Iowa
 Coy Seed Co., Inc., The C. Herbert
 Valley, Neb.
 (See Adv. Index Page 178)
 Coy & Son, Chauncey P.
 Waterloo, Neb.
 (See page 107)
 Crabbs, Reynolds, Taylor Co.
 Crawfordsville, Ind.
 Craver-Dickinson Seed Co.
 Buffalo, N. Y.
 Dacotah Seed Co.
 Bismarck, N. D.
 (See Adv. Index Page 178)
 Dakota Improved Seed Co.
 Mitchell, S. D.
 Davenport Seed Co.
 Davenport, Iowa
 (See Adv. Index Page 178)
 Davis Seed Co., E. C.
 St. Peter, Minn.
 Davis, Zack
 Delaware, Ohio
 Dickinson Co., Albert
 Chicago, Ill.
 Farmer Seed & Nursery Co.,
 Faribault, Minn.
 (See Adv. Index Page 178)
 Fielding's Sons, Geo. F.
 Manhattan, Kan.
 Forrest Seed Co., Inc.
 Cortland, N. Y.
 (See Adv. Index Page 178)
 Frederick Seed Co.
 Aurora, Neb.
 (See Adv. Index Page 178)
 Gilmore, E. L. C.
 Ashland, Neb.
 Griswold Seed & Nursery Co.
 Lincoln, Nebr.
 (See Adv. Index Page 178)
 Grossman & Son, W.
 Petersburg, Va.
 Gurney Seed & Nursery Co.
 Yankton, S. D.
 Healy Seed Co.
 Belle Center, Ohio
 Holbrook Grocery
 Keene, N. H.
 Interstate Seed & Grain Co.
 Fargo, N. D.
 (See Adv. Index Page 178)
 Jameson Havenor Co.
 St. Paul, Minn.
 Johnson, Inc., J. Oliver
 Chicago, Ill.
 Kanuf & Tesch Co.
 Chilton, Wis.
 Keller & Sons, Geo.
 Quincy, Ill.
 Kelly Seed Company
 Peoria, Ill.
 King & Sons, H. C.
 Battle Creek, Mich.
 (See Adv. Index Page 178)
 Klingensmith Seed Co., E. J.
 New Augusta, Ind.
 Landreth Seed Co., D.
 Bristol, Pa.
 (See Adv. Index Page 178)
 Mangelsdorf Seed Co.
 Atchison, Kan.
 Marshall Seed Co.
 Marshall, Mo.
 May & Son, Inc., W. H.
 Alexandria, Va.
 Meinershagen Seed House
 Higginsville, Mo.
 Minneapolis Seed Co.
 Minneapolis, Minn.
 Minnesota Seed Co.
 New Ulm, Minn.



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A full supply of all varieties, certified or non-certified, stored under modern conditions in our warehouses in nine states.

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*Domestic Ryegrass — English Ryegrass
 Hairy and Common Vetch — Red and Alsike Clover*

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TANGENT, OREGON

BULBS, PLANTS AND MISCELLANEOUS SEEDS—Continued

SEED CORN—Continued

- Morris Grain & Seed Co.**
Morris, Ill.
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- Nishna Valley Seed Co.**
Shenandoah, Iowa
(See Adv. Index Page 178)
- Northrup, King & Co.**
Minneapolis, Minn.
(See Adv. Index Page 178)
- Oklahoma Improved Seed Co.**
Chickasha, Okla.
- Ozark Nursery & Seed Co.**
Nashville, Ark.
- O. & M. Seed Co.**
Green Springs, Ohio
(See Adv. Index Page 178)
- Page Seed Co.**
Greene, N. Y.
(See Adv. Index Page 178)
- Pedrick & Son, Geo. R.**
Pedricktown, N. J.
(See Adv. Index Page 178)
- Peppard Seed Co., J. G.**
Kansas City, Mo.
(See Adv. Index Page 178)
- Rice Seed Co., Jerome B.**
Cambridge, N. Y.
(See Adv. Index Page 178)
- Richards & Sons, Ross V.**
North Manchester, Ind.
- Robinson Seed Co., J. C.**
Waterloo, Neb.
(See Adv. Index Page 178)
- Rogers Bros. Seed Co.**
Chicago, Ill.
(See Adv. Index Page 178)
- Russell-Heckle Seed Co.**
Memphis, Tenn.
- Saunders Seed Co.**
Tippecanoe City, Ohio
- Schell, Inc., Walter S.**
Harrisburg, Pa.
(See Adv. Index Page 178)
- Schoorl, Adrian J.**
San Francisco, Calif.
- Sherman Seed Co., W. G.**
Riverton, Iowa
- Simmons Seed Co.**
Moorhead, Minn.
- Sioux City Seed Co.**
Sioux City, Iowa
(See Adv. Index Page 178)
- Skromme Seed Co.**
Roland, Iowa
- Standard Seed Co.**
Des Moines, Iowa
- Steele, Briggs Seed Co., Ltd.**
Toronto, Canada
(See Adv. Index Page 178)
- Stevens, Ltd., F. B.**
Chatham, Ontario, Canada
- Strayer Seed Farm**
Hudson, Iowa
- Tanguay, Ltd.**
Quebec, Canada
- Vance Bros.**
Tillsonburg, Ontario, Canada
- Vermillion Seed Co.**
Vermillion, S. D.
- Western Seed & Irrigation Co.**
Fremont, Neb.
(See Adv. Index Page 178)
- White & Co., Ltd., H.**
Shelburne, Ontario, Canada
- Wood & Sons, T. W.**
Richmond, Va.
- Woodruff & Sons, S. D.**
Orange, Conn.
(See Adv. Index Page 178)
- Young, George W.**
Owosso, Mich.

TREE SEEDS

- Amtorg Trading Corporation**
New York, N. Y.
(See Adv. Index Page 178)
- Colorado Seed Co.**
Denver, Colo.
- Ellis, F. M.**
Griffin, Ga.
- Herbst Brothers**
(Agts. for T. Sakata & Co., Yokohama, Japan)
New York City
(See Adv. Index Page 178)
- Katzenstein & Co., Otto**
Atlanta, Ga.
- Loewith, Inc., Julius**
New York City, N. Y.
- Manshu Nosan Shokai, Inc.**
Dairen, So. Manchuria, China
(See Adv. Index Page 178)
- Morris & Snow Seed Co.**
Los Angeles, Calif.
- North Eastern Forestry Co.**
Cheshire, Conn.
- Rosebank Nursery Co.**
Huntsville, Ala.
- Schon, Ltd., Jacob S.**
Bruenn, Czechoslovakia

VEGETABLE ROOTS

- Corneli Seed Co.**
St. Louis, Mo.
(See Adv. Index Page 178)
- Hyde Co., H. A.**
Watsonville, Cal.
- Ledden, Orol**
Sewell, N. J.
- Pedrick & Son, Geo. R.**
Pedricktown, N. J.
(See Adv. Index Page 178)
- Riverview Farms**
Bridgeton, N. J.
- Shedaker & Son, B. D.**
Burlington, N. J.
(See Adv. Index Page 178)
- Shinn, Warren**
Woodbury, N. J.

WILD RICE

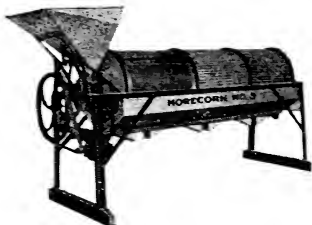
- Carpenter, Louis J.**
Bena, Minn.
- Fairbanks, B. L.**
White Earth, Minn.
- Fleming, Ernest**
Bena, Minn.
- Hamilton, Geo. D.**
Detroit, Minn.
- Hannah-Crawford, Inc.,**
Green Bay, Wis.
- MacGregor-Dennerly Co.**
Aitkin, Minn.
- Minnesota Wild Rice Co.**
La Porte, Minn.
- Scott, George,**
Ballclub, Minn.
- Terrell's Aquatic Farm**
Oshkosh, Wis.

BROKERS

- Amtorg Trading Corporation**
New York, N. Y.
(See Adv. Index Page 178)
- Appel Commission Co., C. H.**
St. Louis, Mo.
(See Adv. Index Page 178)
- Bernham, Inc.**
New York, N. Y.
- Crawford, Keen & Co.**
New York, N. Y.
- Duncan & Co., W. A.**
Kansas City, Mo.
- Dunn, Arthur G.**
New York City, N. Y.
- German, Gale T.**
New York, N. Y.

The Morecorn Sorter and Grader

selects a uniform grade of only the best developed and strongest germ kernels for seed. Insures accurate dropping with any planter, and increases both the quality and quantity of the yield.



Furnished in three sizes. Cut shows largest size, capacity 30 to 40 bushels per hour, and can be equipped for hand, belt or electric motor drive. Morecorn Sorters have been used throughout the Corn Belt for 20 years. Fully guaranteed subject to 10 days' trial. Write for detailed information and price.

Universal Hoist & Mfg. Co.

153 E. 14th Street
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Buy Eastern Nebraska Grown Seed Corn

We grow corn strictly for Seed purpose.

Our corn is certified grown from Northern Stock in the Early Varieties from Wisconsin and Minnesota.

Large or late varieties are Eastern or Native stock.

Now contracting for 1929 delivery on named varieties.

EARLY

Wis. No. 12 or
Golden Glow
Silver King or
Wis. No. 7
Minnesota No. 13
N. W. Red Gold
Cap
Pride of the North
Early Murdock
Bloody Butcher
Minn. King
Ohio Improved
Leaming
Ohio White Cap
Yellow

LATE

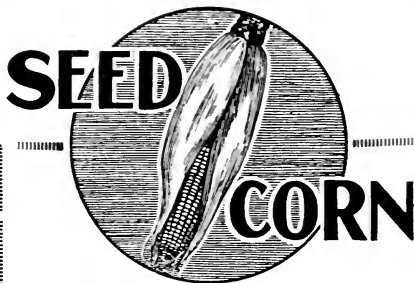
Gold Mine
Silver Mine
Cattle Corn
Diamond Joe
Red Cob White
St. Charles
Krug's Yellow
Reids Yellow Dent
White Pearl
Boone County
White

Write for prices. We sell car lots only one or more varieties. Book Your Seed Requirements NOW.

Frederick Seed Co.

Aurora

Nebraska



**ALL
STANDARD
VARIETIES**
of Dents and Flints

**THE
REPEAT ORDER
KIND**

We are pleased to assure the trade that our Seed Corn is fully up to our high standard of quality of former years. When you order Seed Corn from us you get Seed that is all hand assorted, butted and tipped, and graded. You do not get Scoop Shovel Seed. We do not claim to sell the cheapest Seed Corn on the market, but do claim it to be as good as the best.

**Nishna Valley
Seed Co.**

**SHENANDOAH
IOWA**

BULBS, PLANTS AND MISCELLANEOUS SEEDS—Concluded

Brokers—Continued

Herbst Bros.

New York, N. Y.

(See Adv. Index Page 178)

Hershey Seed Co., Maxim

New York, N. Y.

Holst-Knudsen, S.

New York, N. Y.

Lecourt, Rene

Paris, France

Loewith, Inc., Julius

New York City, N. Y.

McCarty Co., The J. A.

Evansville, Ind.

McHutchison & Co.

New York, N. Y.

(See Adv. Index Page 178)

Mason, R. E.

San Francisco, Calif.

Payne, Avery F.

New York, N. Y.

Pincus, J. W.

New York, N. Y.

(See Adv. Index Page 178)

Purcell Seed Co.

Evansville, Ind.

Radwaner Seed Co., I. L.

New York, N. Y.

(See Adv. Index Page 178)

Skidelsky & Co., S. S.

New York, N. Y.

Smurthwaite, C. A.

Ogden, Utah

Sperco & Son, C. J.

New York, N. Y.

Steinhardt & Nordlinger

New York, N. Y.

Zahm & Co., J. F.

Toledo, Ohio

FORWARDING AGENTS

Furness, Withy & Co., Ltd.

New York City, N. Y.

Holst-Knudsen, S.

New York, N. Y.

Innes & Co., Ltd., W. G.

Finsbury Court, London, England

McHutchison & Co.

New York, N. Y.

(See Adv. Index Page 178)

Meadows & Co., Thos.

New York City, N. Y.

Pitt & Scott

New York, N. Y.

Rauand, A.

Paris, France

SEED COMMISSION FIRMS

American Seed Co.

Detroit, Mich.

Appel Commission Co., C. H.

St. Louis, Mo.

(See Adv. Index Page 178)

Benton Grain Co.

Kansas City, Mo.

Bernham, Inc.

New York, N. Y.

Flower Co., S. W.

Toledo, Ohio

Hulburd, Warren & Chandler

Chicago, Ill.

Innes & Co., Ltd., W. G.

Finsbury Court, London, England

King & Co., C. A.

Toledo, Ohio

Loewith, Inc., Julius

New York City, N. Y.

Picker & Beardsley Comm. Co.

St. Louis, Mo.

Pitt & Scott, Inc.

New York City, N. Y.

Pope & Eckhardt Co.

Chicago, Ill.

Radwaner Seed Co., I. L.

New York City, N. Y.

(See Adv. Index Page 178)

Sevin-Vincent Seed Co.

San Francisco, Calif.

Southworth & Co.

Toledo, Ohio

Stalknecht & Meyer

Copenhagen, Denmark

Steinhardt & Nordlinger

New York, N. Y.

Zahm & Co., J. F.

Toledo, Ohio

SEED STORAGE AND DISTRIBUTION

Blue Line Storage Co.

Des Moines, Iowa

Crooks Terminal Warehouse

Chicago, Ill.

(See Adv. Index Page 178)

Currier-Lee Warehouse Co.

Chicago, Ill.

Binyon-O'Keefe Fireproof Storage Co.

Ft. Worth, Texas

Houston, Texas

Bush Terminal Co.

New York City, N. Y.

Sevin-Vincent Seed Co.

San Francisco, Calif.

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those who made it
possible to publish
this Directory.

See Advertisers' Index on
Page 178

J. W. PINCUS

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Grass and Field Seeds

Consulting Agriculturist

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TESTED SEEDS

**"ALWAYS
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IMPORTERS OF BIRD SEEDS
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115 Broad Street New York

C. H. APPEL COMMISSION CO.

409 Merchants Exchange

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Specializing in country run Timothy and Red Clover,
Redtop, Cow Peas, Soy Beans, Sunflower, Seed
Corn, Sudan Grass, Millet

Send samples of your offerings. Send your inquiries when in the market.

UNEQUALED MODERN FACILITIES FOR

SEED STORAGE

IN TRANSIT

CROOKS TERMINAL WAREHOUSES
CHICAGO

New York Office: Transportation Bldg. KANSAS CITY
Advances Made

SUCCESS WITH INCUBATORS

THESE are four distinct factors that influence the successful operation of an incubator, viz.: the operating room, the machine, the eggs and the operator.

THE OPERATING ROOM

A well ventilated cellar or basement makes the best place in which to operate an incubator. Some cellars are poorly ventilated, however, being either too deep in the ground, too damp or possibly too dry—conditions far from ideal for hatching. In such cases a clean room in any part of the house or in an out building will be much better.

Choose a convenient place where the incubator will be undisturbed, where the sun will not shine on it at any time during the day, and where the ventilation can be readily controlled. Maintain a room temperature around 50 degrees. A heated room is not advisable except where the incubator temperature cannot be kept up without it in extremely cold weather. Heated air is not as moist and pure as it should be when it enters the egg chamber.

THE MACHINE

For convenience, incubators are generally classed as mammoth machines and small machines. The mammoth incubators run in sizes from 1,200 eggs to 10,000 or 20,000 egg capacity and higher. They are usually sectional in construction, heated by water with one coal-burning heater as the source of fuel. Gas or oil is used in some types and there are various distinctive features peculiar to the different makes of machines.

Small incubators range in size from 40 egg capacity up to 200, 300, 400 and even 600 and 800 capacity. They are divided into two classes, hot water machines and hot air machines. The hot water incubators depend upon the principle of radiation to distribute heat. A metal tank or pipe system, usually made of copper, is built in fixed position into the incubator and is filled with water heated by a lamp attached to the machine. The heat radiates to the eggs on the tray in the egg chamber, keeping them at the required temperature.

In the hot air type of incubator there are some variations in the exact principle of heating. In some makes, warm air is introduced into the egg chamber and diffuses over the eggs; in others, the heated air does not enter directly into the egg chamber, but is confined first to a metal tank from which heat radiates to the eggs, and in still others a combination is employed.

The source of heat is commonly an oil-

burning lamp. Electricity has also been found very satisfactory and there are some excellent electric machines now on the market.

Oil lamps are located differently in various makes of machines. In some, the lamp or heater is carried on the side, in others, under the machine at one end, and in still others, in the center beneath the egg chamber.

Incubators are manufactured in both round and rectangular shapes, each distinctive in design and obtainable in various sizes. Some are all-metal, some are metal covered over wood and others are all wood in construction. Another material used is pulp wall board.

Most manufacturers completely assemble the machine before it leaves the factory, the only exception being the legs, the lamp bracket and lamp, and the regulator. These are packed inside of the machine and the whole carefully crated for shipment.

In some instances, incubators are assembled only in part, shipped knocked-down flat and have to be put together by the dealer or his customers.

There are numerous makes of incubators on the market which give entire satisfaction when operated under proper conditions and when managed according to the explicit directions of the manufacturer. No incubator improperly located and poorly handled can be depended upon for a maximum hatch.

THE EGGS

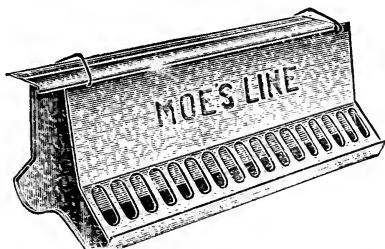
The character of the egg itself is an important factor in the selection of hatching eggs. Some eggs are too round and some too long to be used for hatching. Only eggs that are normal in shape and size should be classed as acceptable. Reject all irregular shapes, abnormally large or small sizes, rough shells, ringed or ridged shells and shells that are too porous.

Only eggs from strong, vigorous, healthy stock should be used. The operator should know something of the history of the parent stock—whether it is free from disease and whether it has been bred from good producing strains. That brings the danger of weak hatches down to a minimum. Many good hatching eggs, however, are spoiled through improper handling. An egg may be strong in fertility when laid and still fail to hatch through lack of good care prior to incubation. Eggs for hatching should be gathered every few hours, so as to prevent them from becoming either chilled

MOE'S POULTRY SUPPLIES



Star Fount
(For Mason Jars)



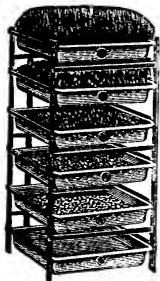
"Big Boy" Feeders



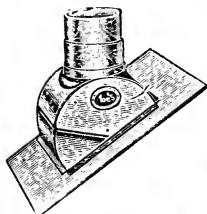
Chick Feeders



Grit Boxes



Oat Sprouter



Roof Saddle for
Brooder Houses

MOE'S LINE

Is a Complete and
Distinctive Line of

**Good
Poultry
Equipment**

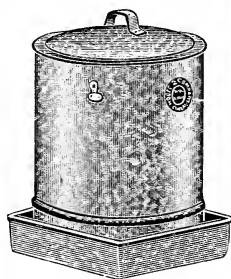
Moderate in Price and
Very Popular with the
Busy Poultry Man

Nothing Better Made

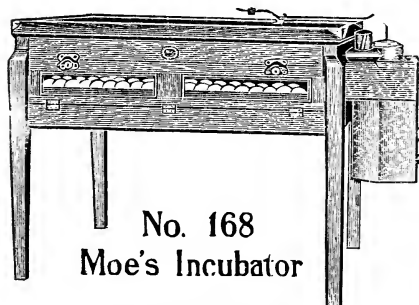
Write for Catalog, Prices
and Free Electros



Magazine Feeder
and Waterer

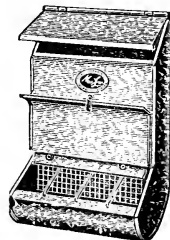


Famous Top-Fill
Fountain



No. 168
Moe's Incubator

Six Sizes—Hot Water Heat
Patent Egg Turning Trays
Automatic Regulation
Underwriters Label



Dry Mash
Hoppers

HOEFT & COMPANY
INCORPORATED

2311 Davis Street

North Chicago, Ill.

or heated. The one condition is as bad as the other. The growth and development of the germ will start at summer heat. Development will begin with only a few hours of heat. Then if the egg becomes chilled, growth of the germ is checked and it weakens and dies.

Eggs for hatching should be kept in a cool place at a temperature from 50 to 60 degrees. They should not be kept for long, however, as the fresher the eggs, the better they will hatch. A week to ten days should be the limit to be perfectly safe. Fertility weakens as the eggs become older. If eggs are to be kept more than a few days before incubation, it is well to turn them once or twice a day to keep the yolk from settling and sticking to the shell.

Eggs for hatching should not be subjected to rough handling. The constant vibration that results from improper packing of eggs for shipment, tends to weaken the germ to a degree that may prevent hatching.

THE OPERATOR

A good machine, properly located and

filled with strong, fertile eggs of normal size, is dependent upon the operator for a successful hatch. Too frequently the purchaser of an incubator overlooks or intentionally discards the printed directions of the manufacturer and proceeds to run the machine according to his own idea of operation. This is the most frequent cause of failure. Manufacturers have tested their machines in every possible way and the printed directions that go to the purchaser are the result of exhaustive experiments. Experts have handed down the rules of operation and it is rarely that they can be improved upon. This fact should be impressed upon the customer very strongly at the time the machine is purchased. Most complaints by customers against the up-to-date incubators of today can be traced to faulty operation.

All that is required of the operator is ordinary common sense combined with a determination to follow the manufacturer's directions to the letter. If this requirement is fulfilled there will be few complaints and far better hatches.

POULTRY DISEASES

By Earl M. Whitney

SOME of the common poultry diseases, their causes and symptoms are:

COLDS

Causes—Insanitary conditions, dampness and poor ventilation in poultry house. Contact with other birds so afflicted.

Symptoms—Coughing, sneezing, watery eyes and nostrils and general listless appearance.

Remedy—Eliminate the cause. Isolate sick birds. Use some good disinfectant in poultry house and treat fowls with a well-known cold remedy.

ROUP

Causes—Neglected colds; contact with other birds so afflicted; contact with germs of Roup which are frequently carried by one means or another to healthy, vigorous flocks. The roup germ is highly contagious.

Symptoms—Same as ordinary cold to begin with, followed rapidly by discharge from nostrils of mucus having very bad odor; also discharge from eyes which, if allowed to go without treatment, will cause swelling and closing; white patches and cheesy white growth in mouth which often becomes so bad as to prevent its closing. Cheeks swell up like mumps.

Remedy—Isolate sick birds and clean

and disinfect houses thoroughly, administering some good roup preventive to all exposed birds as well as those afflicted. Kill and burn all fowls in advanced stages of this dread disease if they do not respond to treatment. Wash face and eyes of birds with diluted disinfectant and remove all sticky substance. It is well also to dip the bird's head into this solution. As birds show signs of improvement, give them some good conditioning remedy that will serve as a tonic.

CHICKEN POX

Causes—Overcrowded, insanitary conditions, dampness, etc. Contact with other birds so afflicted. Germ very contagious and easily introduced into healthy flock by various ordinary means hard to prevent.

Symptoms—Pimples on comb and head which rapidly increase in size, becoming sores and ulcers and frequently attacking the eyelids to the extent of closing them and in neglected cases spreading to other parts of the body.

Remedy—Eliminate the cause, disinfecting house thoroughly and isolating afflicted birds. Apply good chicken pox remedy to both afflicted and exposed birds. Administer some good cathartic through the drinking water and add a reputable tonic or regulator to the mash feed.

Quisenberry's

GUARANTEED

POULTRY REMEDIES & MINERALS

Assure Dealers

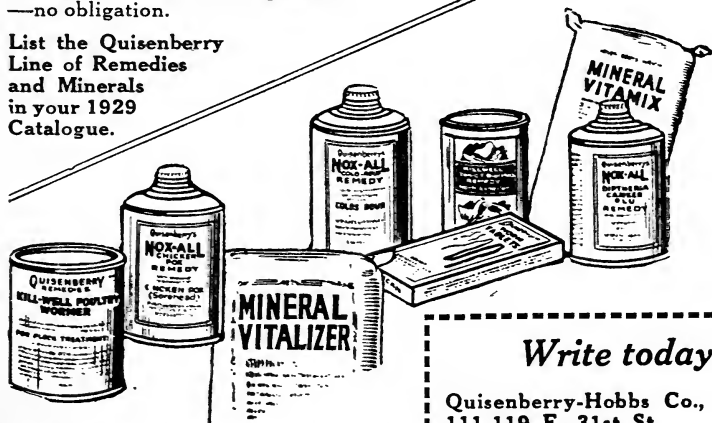
Greater Profits — Quicker Turnover

THE QUISENBERRY LINE

is complete — fills every demand for Poultry Remedies and Mineral Feeds. Manufactured and guaranteed by Prof. Quisenberry, recognized as one of the world's leading poultry authorities.

Complete system of sales co-operation and our local advertising over dealer's firm name doubles turnover with increased profits. We Guarantee Quisenberry Products—Free Poultry Service to dealer's customers. Have Prof. Quisenberry and his full staff of American Poultry School Experts diagnose and correct their poultry ailments—Saves dealer's time and makes you money. Send Today for Distributor Proposition —no obligation.

List the Quisenberry Line of Remedies and Minerals in your 1929 Catalogue.



QUISENBERRY-HOBBS COMPANY

113 S. E. 31ST STREET
Kansas City Missouri

Write today

Quisenberry-Hobbs Co.,
111-119 E. 31st St.,
Kansas City, Mo.

Explain Dealers' Proposition
with sales help and free service
to patrons.

Firm

Address

CANKER

Causes—Insanitary conditions, dampness in poultry house, moldy food, aftermath of other diseases which have left fowls in weakened condition from which canker develops. Just as sore eyes or deafness in children are frequently the outgrowth of measles.

Symptoms—Sores in mouth and throat which develop into ulcers and white patches. Frequently a swelling is caused as in roup.

Remedy—Eliminate cause if possible by thoroughly disinfecting poultry quarters. Isolate sick birds. Apply strong disinfectant directly to affected parts by swabbing out mouth and throat. Add tonic or regulator to the mash feed.

RHEUMATISM

Causes—Poor ventilation of houses resulting in dampness; undue exposure of birds to bad weather conditions.

Symptoms—Lameness; swollen joints; a stiffness in carriage that is unmistakable.

Remedy—Apply some good liniment made for this specific purpose. Improve living conditions of fowls; avoiding undue exposure to the elements and keeping them in the poultry house on rainy, damp days.

CROP BOUND

Symptoms—Swelling and souring of crop. Listlessness and lack of appetite.

Causes—Obstruction in crop such as hay or straw or other foreign substance. Eating sour food or indigestible matter of some sort.

Remedy—Massage crop frequently. If this has no effect, try to empty crop through the mouth. In the event this is of no avail, an operation is necessary. The crop is cut open, thoroughly cleaned and disinfected, sewed up and the bird is placed on a diet of mash feed in which is mixed a good tonic or regulator.

BUMBLEFOOT

Causes—Bruised condition of foot due to flying from one spot to another or jumping from roosts or nests to poultry house floor, the foot becoming sprained or injured by contact with stones, nails or other hard objects.

Symptoms—Lameness causing noticeable limp; swelling of soft part of foot which ultimately forms an abscess.

Remedy—When abscess has formed, pus should be removed and affected part thoroughly washed out with good disinfectant. A healing ointment should then be applied and the foot bound up so as to prevent any foreign substance from coming into contact with the wound until

it is healed. It is sometimes necessary to repeat this operation. Bird should be kept in cage or small coop where it will get rest and quiet until sore is healed.

CONSTIPATION

Causes—Lack of exercise; improper feeding.

Symptoms—Listlessness; indigestion; stoppage of bowel movement.

Remedy—Some good cathartic followed by closer attention to scientific feeding methods.

EGG BOUND

Cause—Disarrangement of egg organs, usually due to over-fat condition.

Symptoms—Continued unsuccessful efforts to lay.

Remedy—Except in severe cases, application of sweet oil through the vent and gentle massaging of the abdomen will release the egg. The fowl's grain diet should be lessened and the consumption of mash feed increased. Feed grain only to induce sufficient exercise to prevent overfat condition.

SCALY LEG

Cause—Insanitary house and surroundings which encourage growth of mites that attack the scales of the fowl's legs, resulting in rough, unsightly growth and swelling.

Symptoms—Swollen, rough, unsightly appearance of legs.

Remedy—Wash well with soap and water and apply scaly leg ointment to affected parts until condition clears up. Prompt action before scaly leg is allowed to develop to any great extent will eliminate this trouble in a few treatments.

WORMS

Causes—Insanitary food and living conditions.

Symptoms—General ill health along with seemingly good appetite.

Remedy—There are now worm emulsions on the market which are reported as relieving this condition. Until recently the treatment of worms in fowls has been a problem that presented great difficulty to leading poultry authorities.

WHITE DIARRHEA

Causes—Contagion or inheritance.

Symptoms—Listless, drooping, run-down appearance. Droppings white or creamy colored.

Remedy—In advanced stages, chicks should be killed and burned. Where there seems to be a chance of saving them, separate immediately from remainder of brood, disinfect everywhere as the disease is very contagious. Administer some well-known White Diarrhea preventive, following directions very carefully.

MODERN and BETTER

... Legume Inoculation ...



EXCLUSIVE FEATURES

- | | |
|-----------------------------|---|
| HARDY WORKERS | } farm bred, hardy bacteria; resistant forms that produce nodules on roots. |
| POSITIVE RESULTS | |
| MODERN SEED TREATING | } dry powder packing permits use with any seeding method; may be used with or without water; adheres to dry seed. |
| LONG LIFE | |
| | } McQueen process insures effectiveness under difficult conditions—such as: overseas shipment; unfavorable soil conditions; uncommon seeding methods. |

NATIONALLY ADVERTISED— FRIENDLY CO-OPERATION—
 REAL SELLING HELPS— ATTRACTIVE DEALER PRICES—
 —IT PAYS TO SELL McQUEEN'S—

THE McQUEEN BACTERIA CO.
 Baltic, Ohio



EDWARDS
LÉGUME BAK

Discounts yielding a nice profit to the dealer.

Dependable bacteria cultures for seed inoculation. Made by a Bacteriologist twenty years in the business.

Standard retail prices

THE EDWARDS LABORATORY, Lansing, Mich.

"The early worm gets the bird"

but

LONG'S EARLY BIRD POULTRY TONIC

"gets the worm"

The only COD LIVER OIL TONIC that controls Intestinal Worms
 Strongest Money-Back Guarantee Ever Written
 Quart, 75c prepaid; Gallon, \$2.50 prepaid; 6 Gal Case, \$2.00 per gal.
 F. O. B. Terre Haute

LONG EMULSION CO.

Desk 7, 110 No. 7th Street, Terre Haute, Ind.
 WRITE FOR ATTRACTIVE DEALERS' PROPOSITION.

INOCULATION OF LEGUMES

LEGUME inoculation is fast becoming a necessity wherever legume crops are grown, especially if planted for the first time on land not previously inoculated.

Commercial firms are manufacturing cultures for inoculating the different legume groups. These firms realize the necessity of producing good products and maintain laboratories which are operated by scientific men. State and government agencies welcome the commercial manufacture of inoculating cultures providing they are properly prepared.

This question of legume inoculation is of great importance to seedsmen, for the demand for inoculating cultures is constantly increasing, and the seedsmen is the proper agent for the distribution of these cultures. He sells the seeds and should urge upon his customers to buy inoculating cultures for the seeds that require inoculation to assure perfect stand.

There are a number of reputable companies that are manufacturing inoculating cultures. These firms employ chemists who have made this line of work a life-long study. Each culture for the different kinds of legumes is carefully prepared and when properly mixed with the seeds to be planted the desired inoculation results. These commercial cultures are inspected and tested from time to time by state and government officials, which tends to keep manufacturers careful as to the potency of their products. As a result of the painstaking manner in which these legume cultures are manufactured, some excellent cultures are now available.

Farmers are realizing more each year

that the use of these tested, artificial cultures is far more satisfactory than the old-fashioned soil inoculation method. They also feel that the use of these cultures always assures them of a good stand of any legume they happen to plant.

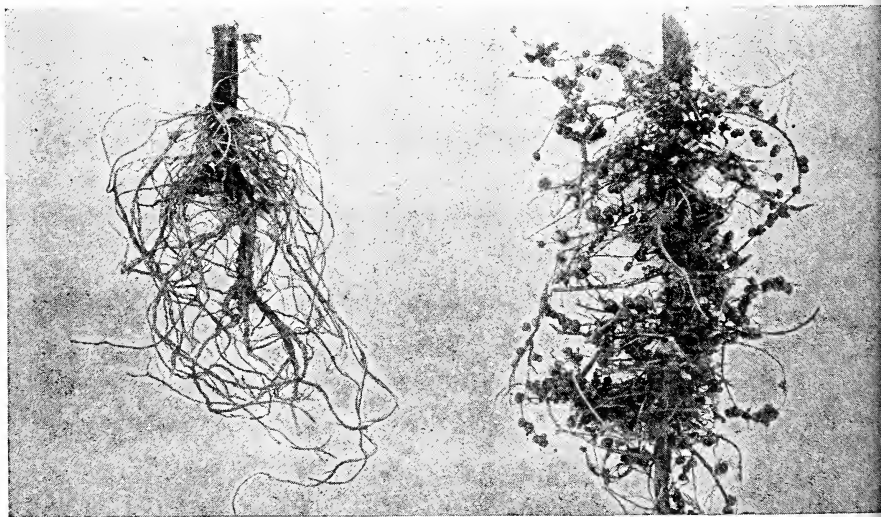
Agricultural colleges have for a number of years done some excellent educational work in getting the farmer to realize the importance of inoculation. They have not been alone in this educational work, for many of the manufacturers of inoculating cultures have spent much time and money in this educational campaign. There are few farmers who plant legumes that do not inoculate their seed.

Seedsmen should handle a line of inoculating cultures which has been proven to be O.K. Manufacturers put up this material in attractive containers. Different cultures are required for different crops. These cultures are put up in packages of different sizes depending upon the amount of seed to be inoculated. The seed should be mixed with the culture. Specific directions are found on the different packages. When everything is considered, inoculating cultures is a most profitable line for seedsmen to handle and it undoubtedly will become more and more profitable when the value of inoculation is more universally known.

The following is copied from page 13 of "Farmers' Bulletin 315," from the U. S. Department of Agriculture:

"Inoculation (of legumes) is desirable—
(1) If the soil has not previously borne leguminous crops.

(Continued on page 120)



Left—Roots of Plant Not Inoculated. Right—Roots of Plant Inoculated, Showing Nodules.



The Stimuplant "line" now includes our own cultures for legume inoculation, under the brand name of STIMUGERM (both jelly and humus media)

Old friends in new clothes

THE personnel of the organization which for ten years has made and marketed Farmogerm and Humogerm, has now formed a new company. Our own cultures for legume inoculation are now being placed on the market under the name STIMUGERM, a sister product to the old well known STIMUPLANT (plant food) which we shall continue to market.

The same strong support which has been given Farmogerm and Humogerm since 1919 will be put behind STIMUGERM, by the same people. The highest type of laboratory skill, and business administration will insure the most pleasant relations with old customers and new, and the maintenance of highest standards.

A complete assortment of cartons, posters, descriptive leaflets, dealer price sheets and other materials, including electros for advertising use are now ready.

Stimuplant Laboratories

Long Island City, N. Y.

(Continued from page 118)

- (2) If legumes previously grown on the same land were devoid of nodules.
- (3) If the legumes to be sown belong to a species not closely related to one previously grown on the same soil.
- (4) If the soil produces a weak growth of legumes, even though their roots show some nodules.

"It is significant of the relative value of pure culture inoculation that a high percentage of beneficial results is being obtained, not only where legumes new to the region are being tried, but where the ordinary legumes used in rotation have been inoculated, a phenomenon which is undoubtedly due to the increased virility of the nodule-forming bacteria resulting from the proper development of the pure cultures in the laboratory. It is also true that the crops following the inoculated legumes have in many cases shown gains not evident in the legume crop. The practice of inoculating is therefore justified where legumes are naturally inoculated, but do not seem to give their full vigor nor to give the best results as green manure."

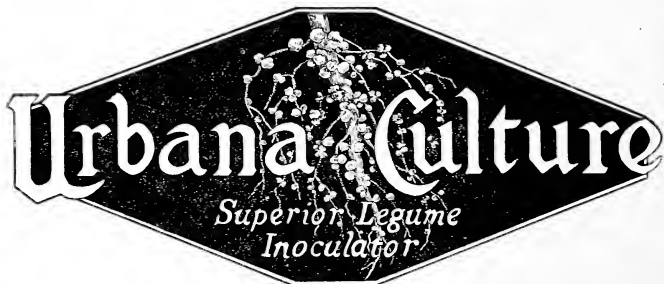
The following seeds require inoculation in order to assure a perfect stand: Red clover, alfalfa, sweet clover, alsike clover, white clover, crimson clover, bur clover, yellow trefoil, lespedeza, garden peas,

field peas, lentil, vetches, sweet peas, cowpeas, soybeans, garden beans, field beans, lima beans, velvet beans, peanuts, beggarweed, lupines, sainfoin and other legumes.

Legume crops are the most profitable ones planted by the farmer. They are soil builders and are used in every good crop rotation practiced by the farmer. In order to emphasize the value of legume crops the following table has been compiled which shows the relative feed value of legumes compared with some of the non-legume crops:

Digestible Nutriments in 100 Pounds

Name of Crop	Total Dry Matter in 100 lbs.			Fat Lbs.
	Lbs.	Crude Protein Lbs.	Carbohydates Lbs.	
Alfalfa, Hay	91.9	10.5	40.5	0.9
Clover, Alsike	90.3	8.4	39.7	1.1
Clover, Crimson	90.4	10.5	34.9	1.2
Clover, Red	84.7	7.1	37.8	1.8
Corn, Grain	89.4	7.8	66.8	4.3
Corn, Fodder	90.8	1.0	31.2	9.7
Cotton Seed Meal..	93.0	37.6	21.4	9.6
Cowpeas, Seed	85.4	16.8	54.9	1.1
Cowpeas, Hay	89.5	9.2	39.3	1.3
Oats, Grain	89.6	8.8	49.2	4.3
Oats, Hay	86.0	4.7	36.7	1.7
Peanuts, Shelled ...	92.5	25.1	13.7	35.6
Peanut Vine Hay...	92.4	6.7	42.2	3.0
Soybean, Seed	88.3	29.1	23.3	14.6
Soybeans, Hay	88.2	10.6	40.9	1.2
Sweet Potatoes	28.9	0.8	22.9	0.3
Vetch, Hairy, Hay..	88.7	11.9	40.7	1.6
Vetch & Oat Hay..	85.0	8.3	35.8	1.3
Velvet Beans	90.0	9.6	52.5	1.4



FOR ALFALFA, SWEET CLOVER, CLOVERS, SOYBEANS — ALL LEGUMES

Scientifically Prepared

on

Jelly Medium

by

Skilled Bacteriologists

Prices to Farmers

Alfalfa, Sweet Clover—Small Seeds

- 1 bu. size for 60 lbs. seed.....\$0.50
- 2 1/2 bu. size for 150 lbs. seed..... 1.00
- 1/2 bu. size for 30 lbs. seed..... .35

Soy Beans, Cow Peas—Large Seeds

- 2 bu. size for 120 lbs. seed.....\$0.50
- 5 bu. size for 300 lbs. seed..... 1.00
- 1 bu. size for 60 lbs. seed..... .35

Made Right—Sold Right—Prompt Service

It will pay you to write us for full particulars

THE URBANA LABORATORIES



(1/25 Actual Size)

URBANA

::

ILLINOIS

NITRAGIN FOR ALFALFA—CLOVERS—PEAS—BEANS—VETCH—ALL LEGUMES

The Improved Soil Inoculator, Nobbe-Filtner Process



"Established in 1898"

The Original Soil Inoculator

PRESENTS ANOTHER WINNING FEATURE IN 1929

LEGUME GERM COUNT ON EVERY CAN

NITRAGIN leads again! Each and every NITRAGIN can will in 1929, in addition to the DATE and Price, contain the guaranteed scientific LEGUME GERM COUNT. Think of what that means.

The Germ Count gives the Seedsman a reliable standard—"a yardstick"—to measure inoculator propositions with—tells him at a glance how many legume germs he is buying per dollar invested—places inoculator purchases on a sound business basis.

IT'S THE NUMBER OF FRESH LEGUME GERMS THAT COUNT—NOT THE PRICE OR THE SIZE OF THE CONTAINER

For that reason NITRAGIN costs less than the cheapest inoculator in the market in like sizes, for NITRAGIN exceeds some by billions and others by millions of legume germs per container. Why not buy your inoculator like you buy seed—"so many" bacteria per bushel?

Millions of farmers are reading this message in their National and Local publications. Capitalize with us! This will be another NITRAGIN Year.

ALWAYS FIRST—NEVER FOLLOWS

1. **FIRST** Commercial Inoculator in the World, 1895.
2. **FIRST** Scientific Com. Inoculator in America, 1898.
3. **FIRST** To allow Dealer Exchange Privilege.
4. **FIRST** To be sold on Bushel basis.
5. **FIRST** To DATE Labels.
6. **FIRST** To place LEGUME GERM COUNT on every package.



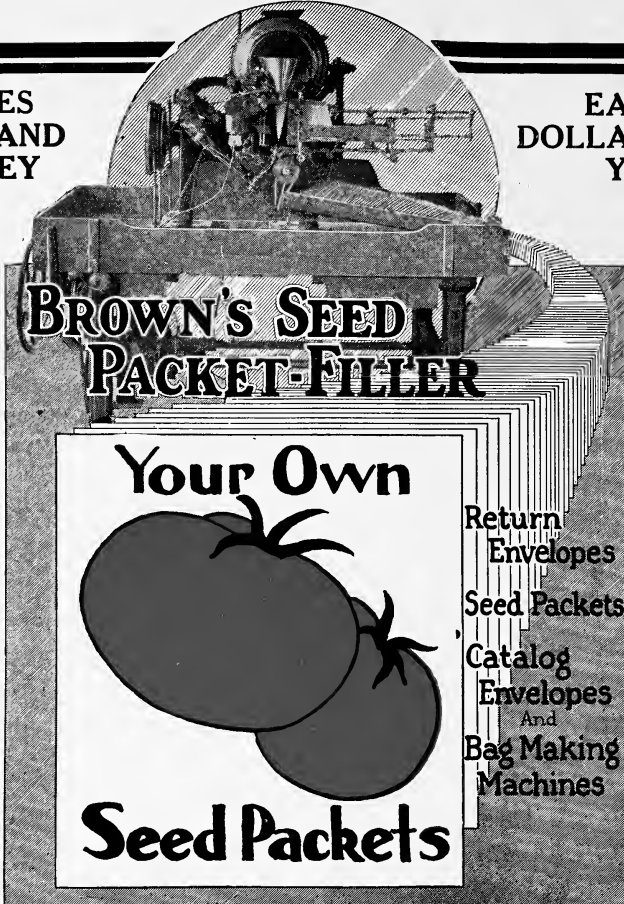
Write us for Prices and Sales Plans.

NITRAGIN FOR ALFALFA—CLOVERS—PEAS—BEANS—VETCH—ALL LEGUMES

THE NITRAGIN COMPANY, INC.
Ninth and National Avenues
MILWAUKEE WISCONSIN

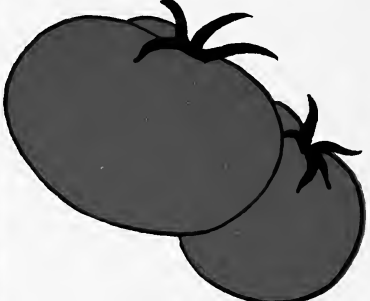
**SAVES
TIME AND
MONEY**

**EARN'S
DOLLARS FOR
YOU**



**BROWN'S SEED
PACKET-FILLER**

Your Own



Seed Packets

Return
Envelopes
Seed Packets
Catalog
Envelopes
And
Bag Making
Machines

BROWN BAG FILLING MACHINES

For Filling Seeds in Flat Packets
Solves "HELP" Problem

They do the work automatically—faster, neater and more accurately than by hand methods—prevent loss from waste—protect both you and your customer.

We manufacture a complete line of Return Envelopes, Seed Packets, Catalog Envelopes, Bag-Filling Machines for filling seeds in flat packets and Bag-Making machines. BROWN BAG FILLING MACHINES automatically fill flat packets with all varieties of seeds. Measure the seed. Fill the packet. Seal it tight. Require but one operator. Deliver 3,000 packets per hour. Reduce labor costs. Eliminate waste. Insure accuracy. Speed up orders.

Write Us

THE BROWN BAG FILLING MACHINE COMPANY
FITCHBURG MASSACHUSETTS

SPRAYING CALENDAR

This calendar is recommended from experience gathered by men connected with State Agricultural Experiment Stations and from other sources.

DISEASE OR INSECT	CURE	FIRST SPRAYING	SECOND SPRAYING	THIRD SPRAYING	FOURTH SPRAYING	REMARKS AND CAUTION
APPLE						
Codling Moth	Arsenates in Bordeaux or arsenate of lead 1 or 1½ lbs. to 50 gallons.	As soon as blossoms fall.	7 to 10 days later.	2 weeks later.	7 weeks later.	Later spraying, if made should be made with diluted solutions.
San Jose Scale	Lime-Sulphur.	Late in fall, late in winter or early in spring.				Use lime-sulphur only when trees are dormant.
Weab	Lime-Sulphur.	Just before blossoms open.	Within a week after blossoms have dropped.	Same 7 to 10 days later.	Repeat 10 to 14 days later.	The spray just before blossoms open is very essential for scab.
Woolly Aphis	Nicotine Sulphate ½ pint to 50 gallons of water.	When leaf-buds are showing tip green.				Don't use strong emulsion when trees are in full leaf.

ASPARAGUS

Asparagus Rust	Bordeaux.					Plant healthy roots of resistant varieties.
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BEAN

Anthraxnose	Bordeaux.	While original seed parts are still on seedlings.	10 days later.			
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CABBAGE AND CAULIFLOWER

Cabbage Worm	Arsenate of lead 1 lb. to 50 gallons of water.	With first appearance of worm.	Whenever worms are observed.	Same.	Same.	Force spray into center of plants.
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CHERRY

Rot	Lime-Sulphur.	Before blossoming.	After blossoming.	2 weeks later.	2 weeks later.	
Curlies	Arsenate of lead in Bordeaux.	Before blossoming.	As blossoms dry up.	1 week later.		Avoid strong solutions.

CUCUMBER

Cucumber Beetle	Powdered Arsenate of lead or Calcium Arsenate.	Soon as plants appear.	Week later.	Week after second.	Week after third.	
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CURRANT

San Jose Scale	Lime-Sulphur.	Same as apple.				
Worm	Arsenate of lead.	When worms first appear.	Repeat in 3 or 4 days.	Repeat as second.		Look for worms on under side of leaf.

GOOSEBERRY

Mildew	Lime-Sulphur.	Before blossoms open.	After blossoming.	10 days later.	10 days later.	
Worm	Arsenate of lead.	When worms first appear.	Repeat in 3 or 4 days.			

GRAPE

Anthraxnose	Bordeaux.	Just before buds open.	Just before blossoming.	Just after fruit has set.	Ten days later. Bordeaux.	
Black Rot and Powdery Mildew	Bordeaux.	Just before blossoming.	Just after fall of blossoms.	Seven to 10 days later.	Seven to 10 days later.	

(Spraying table continued on page 124)

SPRAYING CALENDAR, Continued

This calendar is recommended from experience gathered by men connected with State Agricultural Experiment Stations and from other sources.

DISEASE OR INSECT	CURE	FIRST SPRAYING	SECOND SPRAYING	THIRD SPRAYING	FOURTH SPRAYING	REMARKS AND CAUTION
PEAR						
Scab	L i m e-Sul-phur.	When leaves are half grown.	Just before the flower buds open.	After blossoms drop.		
Codling Moth	Arsenate in Bordeaux.	As with Apple.				
San Jose Scale	L i m e-Sul-phur.	In fall or early spring.				See Apple.

PLUM						
Rot	L i m e-Sul-phur.	As buds are swelling.	Just after blossoms fall.	Three or 4 weeks later.	As fruit begins to color.	Repeat every 7 or 10 days.
Curculio	Arsenate of lead in Bordeaux.	With starting of buds.	Just after blossoms fall.	Five days later.		Jar, gather and destroy curculios and stung plums.
San Jose Scale	L i m e-Sul-phur.	In late fall or early spring.				

PEACH						
Leaf Curl	L i m e-Sul-phur.	In fall or spring.	As buds are opening.	Just after calyxes drop.	Not required if others are well done.	
Rot and Scab	L i m e-Sul-phur.	As buds are swelling.	Three or 4 weeks after fall of blossoms.	Two or 3 weeks later.	Repeat.	Destroy all mummies.
Bud Moth	Arsenate in Bordeaux.	With opening of buds.				Use only half usual amount of poison.
San Jose Scale	L i m e-Sul-phur.	In late fall or early spring.				See Apple.

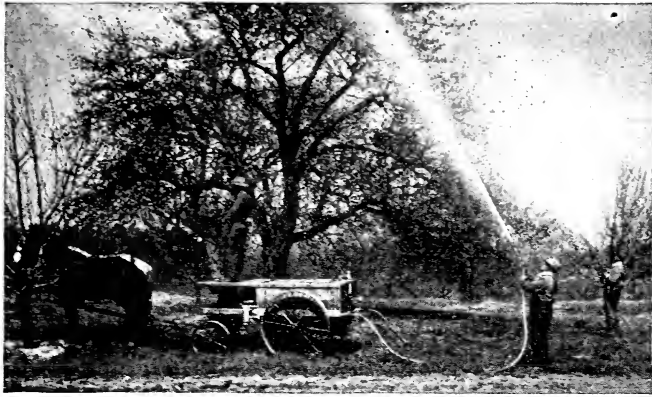
POTATO						
Early Blight	Bordeaux.	When plants are 6 inches high.	Two weeks later.	Two weeks later.	Two weeks later.	Apply until five applications have been made.
Late Blight	Same.	Same.	Same.	Same.	Same.	
Scab	Soak seed in Corrosive Sulphimate.		Solution (2 oz. in 16 gallons of water).			
Potato Bugs	Arsenate of lead or Paris Green.	When beetles or young appear.	As soon as bugs appear.			Arsenate of lead. 3 lbs. to 50 gals. of water for Potato Bugs alone.

QUINCE						
Fruit and Leaf Spot	L i m e-Sul-phur.	Just before blossoms open.	After blossoms drop.	Two weeks later.	Two weeks later.	
San Jose Scale	L i m e-Sul-phur.	In late fall or early spring.				See Apple.

STRAWBERRY						
Leaf Spot	Bordeaux.	Before blossoms open.	2 or 3 weeks later.			Mow off tops and burn, soon as fruit is picked.

TOMATO						
Anthraxnose	Bordeaux.	Soon after fruit sets.	3 weeks later.	3 weeks later.		
Leaf Spot	Bordeaux.	At transplanting time.	2 weeks later.	2 weeks later.	2 weeks later.	

WATERMELON AND MUSKMELON						
Anthraxnose and Leaf Spot	Bordeaux.	When plants begin to vine.	2 or 3 weeks later.	2 or 3 weeks later.	2 or 3 weeks later.	The intervals from 1st spraying is 2 weeks for muskmelons and 3 weeks for watermelons.



MYERS SPRAY PUMPS

A Style for Every Service

The tendency of spray pump design is toward greater efficiency and better results. Spray pumps of yesterday will not answer for the standards of today. To spray for profit now means scientific spraying, and scientific spraying whether on a large or small scale involves speed, thoroughness, economy and labor reduction to which must be added dependability of equipment.

The splendid record of Myers Spray Pumps in every field of the spraying world stands today as our best testimonial for them, and accounts in no small measure for their selection and use by leading orchardists, seedsmen, nurserymen, gardeners and farmers of this and of many other lands.

The Myers Line of Spray Pumps is complete and proven—a style and size for any service—with sought after features which both you and your customers will appreciate for their real worth.

Write or wire for catalog and prices.



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MYERS
PUMPS · WATER SYSTEMS · HAY TOOLS · DOOR HANGERS

THE F. E. MYERS & BRO. CO.

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For Lawns-Gardens-Golf Courses

PREMIER BRAND

PULVERIZED POULTRY MANURE



Guaranteed Analysis	
Nitrogen	4.93%
Ammonia	6.00%
Available Phosphoric Acid	25.0%
Total Phosphoric Acid	27.5%
Potash	1.30%

Manufactured by
PREMIER POULTRY MANURE COMPANY
308 W. Washington St.
Chicago, Ill.

A PROFITABLE SIDELINE
FOR
CATALOG AND COUNTER TRADE

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Premier Poultry Manure Co.
CHICAGO

We Have an Attractive 1929 Dealer's

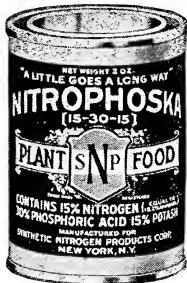
PROPOSITION

on

NITROPHOSKA

and

FLORANID (Urea)



We Assist
Dealers
with
Advertisements
in
Their
LOCAL PAPERS

These two plant foods have gained deserved popularity because they make good in customer's soil. Every dealer who handles them gets repeat demands after a customer is once started. Our 1929 Proposition works with each dealer in his own trading area helping him move the goods through advertisements over his own name in his local papers.

Write for details about our special dealers assortments
—the profit is generous.

SYNTHETIC NITROGEN PRODUCTS CORP.

Garden Department

285-G MADISON AVENUE

NEW YORK

6 Good Reasons Why Leading Seedsmen Sell VIGORO

Dependable in Its Results—Scientifically balanced and complete, Vigoro produces maximum results—Swift & Company's name on the package is your assurance of highest quality.

A Wide Market—Every one of your customers is a prospect for at least 100 lbs. Figure what this means to you in dollars and cents.

Profitable—Directly and Indirectly—A good direct profit on each sale—also an indirect profit. Since it assures the maximum productivity of your seeds, it makes better satisfied customers for you. This indirect profit alone is worth considerable to your business.

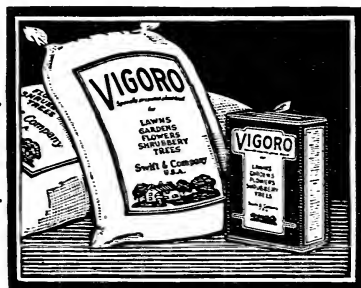
Nationally Advertised—Never before has any plantfood concern ever attempted an advertising campaign such as will back your efforts on Vigoro in 1929. National advertising in the best publications—large space advertising in metropolitan papers—all telling the Vigoro story to your customers in every part of the country.

Convenient to Stock—Packed in heavy, white, paper-lined, cotton bags—attractively printed—convenient sizes—clean and odorless—compact packages requiring the minimum storage space.

Effective Sales Aids—Window trims in full color, attractive pamphlets, store cards, electrotypes, and stickers—movie slides—all furnished free to help you capitalize on this tremendous campaign.

Swift & Company
Chicago, Ill.

VIGORO



Complete
Plant Food

Endorsed by Leading Landscape Gardeners and Nurserymen

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New York City, N. Y.

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Cincinnati Plant Food Co.
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York, Pa.

Fujiya Fertilizer & Seed Co.
Moneta, Calif.

Grasselli Chemical Co., The
Cleveland, Ohio

Jones Phosphate Co., Robert
Nashville, Tenn.

Magnesia Products Co.
Milwaukee, Wis.

National Plant Food Co.
Eau Claire, Wis.

Natural Guano Co.
Aurora, Ill.
(See Adv. Index Page 178)

Ober & Sons Co., F.
Baltimore, Md.

Pacific Manure & Fertilizer Co.
San Francisco, Calif.
(See Adv. Index Page 178)

Parmenter & Polsey Fertilizer Co.
Boston, Mass.

Plant Products Co.
Baltimore, Md.
(See Adv. Index Page 178)

Potash-Marl, Inc.
New York City, N. Y.

Premier Poultry Manure Co.
Chicago, Ill.
(See Adv. Index Page 178)

Pulverized Manure Co.
Chicago, Ill.
(See Adv. Index Page 178)

Read Phosphate Co.
Nashville, Tenn.

Reading Bone Fertilizer Co.
Reading, Pa.

Reading Chemical Co.
Reading, Pa.

Robin Jones Phosphate Co.
Nashville, Tenn.

Royster Guano Co., F. S.
Norfolk, Va.

Ruhm Phosphate & Chemical Co.
Mt. Pleasant, Tenn.

Sanderson Fertilizer & Chemical Co.
New Haven, Conn.

Smith Agricultural Chemical Co.
Columbus, Ohio

Sodus Humus Co.
Benton Harbor, Mich.

Stadler Products Co.
Cleveland, Ohio

Stevens Chemical Manure Co.
London, England

Stimulant Laboratories, Inc.
Long Island City, N. Y.
(See Adv. Index Page 178)

Swift & Co.
Chicago, Ill.
(See Adv. Index Page 178)

Synthetic Nitrogen Products Corp.
New York City, N. Y.
(See Adv. Index Page 178)

Thompson & Sons, Ltd., Wm.
Clevesford, Scotland

Tipulite Co.
Darlington, England

Uniform Products Co.
Lancaster, Pa.

Virginia-Carolina Chemical Co.
Richmond, Va.
(See Adv. Index Page 178)

Williamson, Garfield
New York, N. Y.

Wilson, Inc., Andrew
Springfield, N. J.
(See Adv. Index Page 178)

Wilson & Co.
Chicago, Ill.

York Chemical Works
York, Pa.

FERTILIZER SPREADERS

Baier Bros. Mfg. Co.
Cissna Park, Ill.

Bateman Co., Fred H.
Philadelphia, Pa.

Browning, George William
Clinton, N. Y.

Crown Mfg. Co.
Phelps, N. Y.

Emerson-Brantingham Implement Co.
Rockford, Ill.

Iron King Imp. Co.
Madison, Ohio

Peerless Fertilizer Distributor Co., The
Cedar Rapids, Iowa

Southland Seed Co.
Orlando, Fla.

GARDEN AND FIELD IMPLEMENTS AND SUPPLIES

CULTIVATORS

Acme Cultivator Co.
Salem, Ohio

Akron Cultivator Co.
Akron, Ohio

Allen & Co., Inc., S. L.
Philadelphia, Pa.

American Fork & Hoe Co.
Cleveland, Ohio
(See Adv. Index Page 178)

Bacon Mfg. Co.
Pontiac, Mich.

Bateman Co., Fred H.
Philadelphia, Pa.

WIZARD Sheep Manure

TRADE BRAND MARK



We can supply Wizard Brand Pulverized and Shredded Cow Manures.

Superior Quality

For years Wizard has been conceded the standard of quality by the dealer trade. It is concentrated by a special direct heat process that kills all weed seeds. It is bone dry and packed in new, strong bags that reach your customers in perfect shape.

Dealer Service

A quick seller because it has been consistently advertised for twenty years. The free sales and advertising service to dealers insures increased sales and profits. It pays to handle this widely known, quick selling brand.

Wizard Sheep Manure is packed in 2, 5, 10, 25, 50 and 100-pound bags.
Send for dealers proposition!

The Pulverized Manure Co.

395 Union Stock Yards, Chicago



"I need three things to sell fertilizer in my community."

"What are they?"

"Package—Product—Price"

"We Have Them!"

SHEEP'S HEAD PACKAGE

is perfectly adapted to its purpose—attractive, symmetrical, artistic, strong. Bears directions for use of product, and analysis of content.

2-pounds, 5-pounds, 10-pounds

Sheep's Head Pulverized Sheep Manure

contains in balanced ration the natural ingredients necessary to build up lawns, plants, flowers, shrubs, nursery stock. Its use can not be harmful to plant life. It is the perfect plant food.

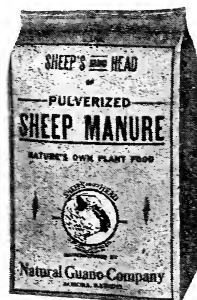
Sheep's Head Price enables you to buy and sell at a splendid profit, a product which gives marvelous value.

Inquiries Cordially Invited

NATURAL GUANO COMPANY
Aurora, Illinois

Established 1903

Manufacturers also of Shredded Cattle Manure
in 100-lb. Bags



GARDEN AND FIELD IMPLEMENTS AND SUPPLIES—Continued

Cultivators—Continued

New Beeman Garden Tractor Co., The
Minneapolis, Minn.
Brinkly Hardy Co.
Louisville, Ky.
Brown Mfg. Co.
Zanesville, Ohio
Bruner Mfg. Co.
Ferndale, Mich.
Buffum Tool Co.
Louisiana, Mo.
Case Threshing Machine Co., J. I.
Racine, Wis.
Emerson-Brattingham Implement Co.
Rockford, Ill.
Empire Plow Co.
Cleveland, Ohio
Geyer Mfg. Co.
Rock Falls, Ill.
Gilson Co., J. E.
Port Washington, Wis.
Gilson Mfg. Co.
Port Washington, Wis.
Gravelly Motor Plow & Cultivator Co.
Dunbar, W. Va.
Hayes Pump & Planter Co.
Galva, Ill.
Hudson Mfg. Co.
Minneapolis, Minn.
(See Adv. Index Page 178)
Iron King Imp. Co.
Madison, Ohio
Leonard & Son, A. M.
Piqua, Ohio
(See Adv. Index Page 178)
Leroy Plow Co.
Leroy, N. Y.
Letz Mfg. Co.
Crown Point, Ind.
Motor Macultivator Co.
Toledo, Ohio
Norcross & Sons, C. S.
Bushnell, Ill.
Ohio Cultivator Co.
Bellevue, Ohio
Red-E. Mfg. Co.
Milwaukee, Wis.
Schaible Mfg. Co.
Elyria, Ohio
Scott Co., I. W.
Pittsburgh, Pa.
Shaw Mfg. Co.
Galesburg, Kans.
Standard Garden Tool Co.
Montrose, Iowa
Ulrich Mfg. Co.
Rock Falls, Ill.
Utilitor Co., The
Indianapolis, Ind.
Wilbern Shared Forge Co.
Rock Falls, Ill.

FANNING MILLS

Burch Corp.
Crestline, Ohio
Cleland Mfg. Co.
Minneapolis, Minn.
Dickey Mfg. Co., A. B.
Racine, Wis.
Ferrell & Co., A. T.
Saginaw, Mich.
Newkirk & Newkirk
Rushville, Ind.
Owens Co., J. L.
Minneapolis, Minn.

DRILLS

American Fork & Hoe Co.
Cleveland, Ohio
(See Adv. Index Page 178)
Bateman Co., Fred H.
Philadelphia, Pa.
Benthall Machine Co.
Suffolk, Va.

Crown Mfg. Co.
Phelps, N. Y.
Hayes Pump & Planter Co.
Galva, Ill.
Iron King Imp. Co.
Madison, Ohio
Letz Mfg. Co.
Crown Point, Ind.
Standard Garden Tool Co.
Montrose, Iowa

GARDEN HOSE

(See page 140)

GARDEN TRACTORS

American Farm Machine Co.
Minneapolis, Minn.
Dee & Ess Corp.
Cassadaga, N. Y.
(See Adv. Index Page 178)
Gilson Mfg. Co.
Port Washington, Wis.
Gravelly Motor Plow & Cultivator Co.
Dunbar, W. Va.
Leroy Plow Co.
Leroy, N. Y.
Montague Mfg. Co.
Grand Rapids, Mich.
Northern Seed & Tractor Co.
Pittsburgh, Pa.
New Beeman Tractor Co., The
Minneapolis, Minn.
Pioneer Mfg. Co.
Milwaukee, Wis.
Shaw Mfg. Co.
Galesburg, Kans.
Standard Engine Co.
Minneapolis, Minn.
Utilitor Co., The
Indianapolis, Ind.

GRINDERS—HAND

Arcade Mfg. Co.
Freeport, Ill.
Letz Mfg. Co.
Crown Point, Ind.
Red Chief Mfg. Co.
Louisville, Ky.
Sanders Mfg. Co., J. M.
Atlanta, Ga.

HARROWS

Henderson & Co., Peter
New York, N. Y.
(See Adv. Index Page 178)

HOES

American Fork & Hoe Company
Cleveland, Ohio
(See Adv. Index Page 178)
Bateman Co., Fred H.
Philadelphia, Pa.
Geyer Mfg. Co.
Rock Falls, Ill.
Gilson Co., J. E.
Port Washington, Wis.
Leonard & Son, A. M.
Piqua, Ohio
(See Adv. Index Page 178)
Piqua Handle Mfg. Co.
Piqua, Ohio
Reichard Mfg. Co., F. B.
Bangor, Pa.
Schoener Mfg. Co.
St. Cloud, Minn.

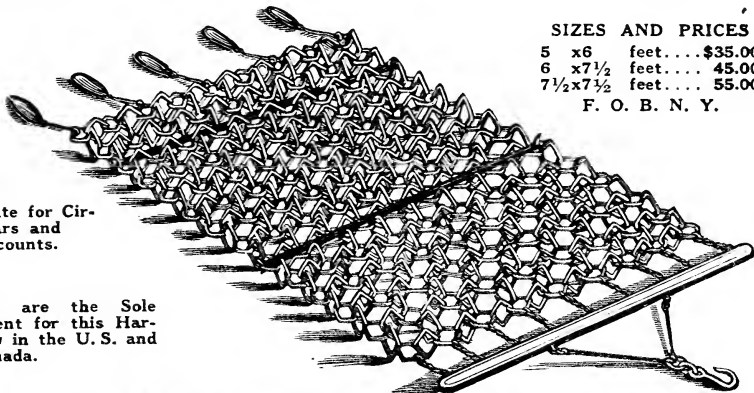
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Alliance Mfg. Co., The
Alliance, Ohio
American Fork & Hoe Co.
Cleveland, Ohio
(See Adv. Index Page 178)

Profitable Item for Seed and Implement Dealers Imported Scotch Chain Harrow

Smooths the Surface of the Earth

It is better than any other harrow. Always in demand by Gardeners, Farmers, Landscape Engineers, Contractors, Athletic Field Groundsmen and Greenkeepers.



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5	x6	feet....	\$35.00
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Detroit, Mich.

GARDEN AND FIELD IMPLEMENTS AND SUPPLIES—Continued

Horticultural Tools—Continued

- Bartlett Mfg. Co.**
Detroit, Mich.
 (See Adv. Index Page 178)
- Clyde Cutlery Co.
 Clyde, Ohio
- Disston and Sons
 Philadelphia, Pa.
- Hardie Mfg. Co.
 Hudson, Mich.
- Iron King Imp. Co.
 Madison, Ohio
- Leonard & Son, A. M.**
Piqua, Ohio
 (See Adv. Index Page 178)
- McKinney Mfg. Co.
 Pittsburgh, Pa.
- Peck, Stow & Wilcox Co.
 Southington, Conn.

PLANT PROTECTORS

- Calkins Machine Co.
 Spokane, Wash.
- Germain Seed & Plant Co.**
Los Angeles, Calif.
 (See Adv. Index Page 178)
- Harris Mfg. Co., A. W.
 Sleepy Eye, Minn.
- Plant Protector Co.
 Rochester, N. Y.

PLANT SETTERS

- Masters Planter Co.
 Chicago, Ill.
- Nagley Mfg. Co.
 Lyons, N. Y.
- Ohio Rake Co.
 Dayton, Ohio
- Potato Implement Co.
 Traverse City, Mich.
- Wabers Mfg. Co.
 Racine, Wis.

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- Harris Mfg. Co., A. W. (Bands)
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- Henry & Lee
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- Igoe Bros.
 Brooklyn, N. Y.
- Leadclad Wire Co.
 Moundsville, W. Va.
- McHutchison & Co.**
New York, N. Y.
 (See Adv. Index Page 178)
- Oriole Shop, The
 LaGrange, Ill.
- Peerless Plant Stake Co., The
 Waterloo, Iowa
- Unadilla Silo Co.
 Unadilla, N. Y.
- United Steel & Wire Co.
 Battle Creek, Mich.
- Vaughan's Seed Store
 Chicago, Ill.
- Woodcraft Co., The
 Dalton, N. Y.

PLANTERS

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- Iron King Implement Co.
 Madison, Ohio
- Wright Planters Co., The
 Spokane, Wash.

PRUNING IMPLEMENTS

- Alliance Mfg. Co., The
 Alliance, Ohio
- Bartlett Mfg. Co.**
Detroit, Mich.
 (See Adv. Index Page 178)

- Cronk & Carrier Mfg. Co.
 Montour Falls, N. Y.
- Disston & Sons, Inc., Henry
 Philadelphia, Pa.
- Graham Co., Inc., John H.
 New York, N. Y.
- Nagley Mfg. Co.
 Lyons, N. Y.
- Northwest Fence & Wire Works
 Portland, Ore.
- Peck, Stow & Wilcox Co.
 Southington, Conn.
- Rhodes Mfg. Co.
 Grand Rapids, Mich.
- Seymour Smith & Son, Inc.
 Oakville, Conn.
- Trenton Patent Mfg. Co.
 Trenton, N. J.
- Wiss & Sons, J.
 Newark, N. J.

RAKES

- Bateman Co., Fred H.
 Philadelphia, Pa.
- Cronk & Carrier Mfg. Co.
 Montour Falls, N. Y.
- Leonard & Son, A. M.**
Piqua, Ohio
 (See Adv. Index Page 178)
- Ohio Rake Co.
 Dayton, Ohio
- Piqua Handle Mfg. Co.
 Piqua, Ohio
- Swineford Co., G. A.
 Canton, Ohio

SEED THRESHERS

- Caledonia Bean Harvester Works
 Caledonia, N. Y.
- Case Threshing Machine Co., J. I.
 Racine, Wis.
- Gray's Sons, Inc., A. W.
 Poultney, Vt.
- International Harvester Co.
 Chicago, Ill.
- Koger Pea & Bean Thresher Co.
 Morristown, Tenn.
- Owens Co., J. L.
 Minneapolis, Minn.

SEEDERS—DRILL

- Bacon Mfg. Co.
 Pontiac, Mich.
- Hudson Mfg. Co.**
Minneapolis, Minn.
 (See Adv. Index Page 178)

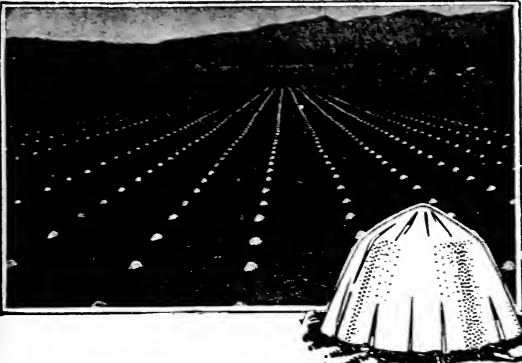
SEEDERS—BROADCAST

- Bateman Co., Fred H.
 Philadelphia, Pa.
- Bohr, W. H.
 Westphalia, Mich.
- Crown Mfg. Co.
 Phelps, N. Y.
- Cyclone Seeder Co.
 Urbana, Ind.
- Gaunt & Son, Inc., J. R.
 New York, N. Y.
- Gilson Mfg. Co.
 Port Washington, Wis.
- Goodell Co.
 Antrim, N. H.
- Letz Mfg. Co.
 Crown Point, Ind.
- Pratt Mfg. Co., Wm. E.
 Chicago, Ill.
- Star Seeder Co.
 Shortsville, N. Y.
- Urbana Seeder Co.
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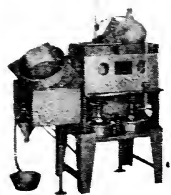
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the best side line for the seeds-
man. Write for descriptive
pamphlet and sample.

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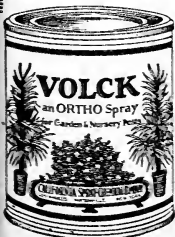
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Scientific pest control. A distinct im-
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Highly effective against insect pests.
Wide margin of safety for tender plants.
Does not irritate the skin or smart the
eyes. Easy and pleasant to use. Send
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California Spray-Chemical Co.,
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Send a sample can of VOLCK together with your
money-making proposition for dealers.

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- Conneaut Shovel Co.
Conneaut, Ohio
- Leonard & Son, A. M.**
Piqua, Ohio
(See Adv. Index Page 178)
- Wood Shovel & Tool Co.
Piqua, Ohio

SICKLES

- Leonard & Son, A. M.**
Piqua, Ohio
(See Adv. Index Page 178)
- Simmons Hardware Co.
St. Louis, Mo.

SMUT TREATING MACHINES

- Cleland Mfg. Co.
Minneapolis, Minn.
- Howes Co., S.
Silver Creek, N. Y.
- Seed Trade Reporting Bureau**
Chicago, Ill.
(See Adv. Index Page 178)

SOIL SHREDDERS

- Kemp Mfg. Co.
Erie, Pa.

TOOLS—GARDEN

- Allen & Co., Inc., S. L.
Philadelphia, Pa.
- Alexander Mfg. Co.
Ames, Iowa
- Alliance Mfg. Co., The
Alliance, Ohio
- American Fork & Hoe Co.**
Cleveland, Ohio
(See Adv. Index Page 178)
- Avery & Sons, B. F.
Louisville, Ky.
- Bateman Co., Fred H.
Philadelphia, Pa.
- Baystate Mfg. Co.
Worcester, Mass.
- Dee & Ess Co.**
Cassadaga, N. Y.
(See Adv. Index Page 178)
- Dobbins Mfg. Co.**
North St. Paul, Minn.
(See Adv. Index Page 178)
- Empire Plow Co.
Cleveland, Ohio
- Eureka Planter Co., Ltd.
Woodstock, Ont., Canada
- Frost-Superior Fence Co.
Warren, Ohio
- Gilson Co., J. E.
Port Washington, Wis.
- Gilson Mfg. Co.
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- Goodell Co.
Antrim, N. H.
- Hazlett Mfg. Co.
Kearney, Neb.
- Henderson & Co., Peter (Harrows)**
New York, N. Y.
(See Adv. Index Page 178)
- Hoeft & Co., Inc.**
North Chicago, Ill.
(See Adv. Index Page 178)
- Hudson Mfg. Co.**
Minneapolis, Minn.
(See Adv. Index Page 178)
- Imperial Bit & Snap Co.
Racine, Wis.
- Iron King Imp. Co.
Madison, Ohio
- Johnson, The Firm of William
Newark, N. J.
- Kingsbury Mfg. Co. (Trowels)
Keene, N. H.

- Leonard & Son, A. M.**
Piqua, Ohio
(See Adv. Index Page 178)
- Metropolitan Material Co.
Brooklyn, N. Y.
- Michigan Wire Goods Co.**
Niles, Mich.
(See Adv. Index Page 178)
- Nash, Inc., Duane H.
Millington, N. J.
- Norcross & Sons, C. S.
Bushnell, Ill.
- Norris & Bell
Tauranga, New Zealand
- Piqua Handle Mfg. Co.
Piqua, Ohio
- Reichard Mfg. Co., F. B.
Bangor, Pa.
- Schaible Mfg. Co.
Elyria, Ohio
- Schling Seedsmen, Inc., Max
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- Simmons Hdwe. Co.
St. Louis, Mo.
- Swineford Co., G. A.
Canton, Ohio
- Wood Shovel & Tool Co.
Piqua, Ohio

TRACTORS

- (Also see Garden Tractors, Page 130)
- Advance Rumely Thresher Co., Inc.
La Porte, Ind.
- Allis-Chalmers Mfg. Co.
Milwaukee, Wis.
- Bates Machine & Tractor Co.
Joliet, Ill.
- Bear Tractor, Inc.
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- C. L. Best Tractor Co.
San Leandro, Calif.
- The New Beaman Tractor Co.
Minneapolis, Minn.
- Case Threshing Mach. Co., J. I.
Racine, Wis.
- Cleveland Tractor Co.
Cleveland, Ohio
- Dee & Ess Co.**
Cassadaga, N. Y.
(See Adv. Index Page 178)
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Waterloo, Iowa
- Ford Motor Co.
Detroit, Mich.
- Gray Tractor Co., The
Minneapolis, Minn.
- Gravelly Motor Plow & Cultivator Co.
Dunbar, W. Va.
- Hart-Parr Co.
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- Holt Mfg. Co.
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- Kinnard & Sons Mfg. Co.
Minneapolis, Minn.
- LeRoy Plow Co.
LeRoy, N. Y.
- LaCrosse Tractor Co.
LaCrosse, Wis.
- Lawson Mfg. Co., John
New Holstein, Wis.
- Minneapolis Threshing Mach. Co.
Hopkins, Minn.
- Minneapolis Steel & Mach. Co.
Minneapolis, Minn.
- Monarch Tractors Corp.
Springfield, Ill.



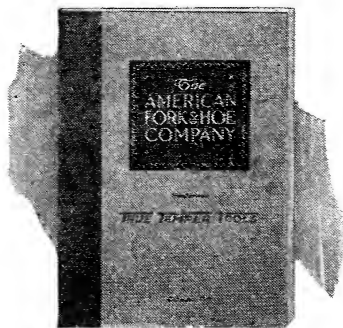
It is the guarantee of the American Fork & Hoe Company (tool manufacturers for over 100 years) that each tool so marked is the best of its kind that can be made.

Our line of wheeled seeders, cultivators and hand tools are of such a quality as to meet the rigid requirements of the seedsmen and nurserymen.

These are described and illustrated in a 143-page Catalog, which we will be pleased to mail on request.

The American Fork & Hoe Company

General Offices: Cleveland, Ohio



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on Request

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Tractors—Continued

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Rock Island Plow Co.
Rock Island, Ill.
Rogers Tractor & Trailer Co.
Albion, Pa.
Russell & Co.
Massillon, Ohio
Scott Co., I. W.
Pittsburgh, Pa.
Shaw Tractor Co.
Galesburg, Kans.
The Toro Tractor Co.
Minneapolis, Minn.
Utilitor Co., The
Indianapolis, Ind.
Wetmore, H. A.
Sioux City, Iowa
Wisconsin Farm Tractor Co.
Sauk City, Wis.

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Masters Planter Co.
Chicago, Ill.
Nagley Mfg. Co.
Lyons, N. Y.
New Idea Spreader Co.
Coldwater, Ohio
Wabers Mfg. Co.
Racine, Wis.
Wiard Plow Co.
Batavia, N. Y.

TROWELS

Cronk & Carrier Mfg. Co.
Montour Falls, N. Y.
Hoeft & Co., Inc.
N. Chicago, Ill.
(See Adv. Index Page 178)
Johnson, The Firm of William
Newark, N. J.
Leonard & Son, A. M.
Piqua, Ohio
(See Adv. Index Page 178)

WEEDERS

Barker Mfg. Co.
David City, Neb.
Bateman Co., Fred H.
Philadelphia, Pa.
Bruner Mfg. Co., R. G.
Ferndale, Mich.
Gilson Co., J. E.
Port Washington, Wis.
Hazeltinge, S. I.
Springfield, Mo.
Hoeft & Co., Inc.
North Chicago, Ill.
(See Adv. Index Page 178)
Hudson Mfg. Co.
Minneapolis, Minn.
(See Adv. Index Page 178)
Imperial Bit & Snap Co.
Racine, Wis.
Iron King Imp. Co.
Madison, Ohio
Johnson-Sharp & Co.
Bayfield, Wis.
Leonard & Son, A. M.
Piqua, Ohio
(See Adv. Index Page 178)
Michigan Wire Goods Co.
Niles, Mich.
(See Adv. Index Page 178)
Norcross & Sons, C. S.
Bushnell, Ill.
Reichard Mfg. Co., F. B.
Bangor, Pa.
Simplex Company
Seattle, Wash.
Sowrite, Inc.
New York, N. Y.
Ulrich Mfg. Co.
Rock Falls, Ill.
Western Brass Mfg. Works
Chicago, Ill.

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Cleveland, Ohio
Defiance Box Co., The
Defiance, Ohio

GREENHOUSE AND FLORAL SUPPLIES**FLORISTS' SUPPLIES**

Barnard Co., W. W.
Chicago, Ill.
(See Adv. Index Page 178)
Bird & Son
East Walpole, Mass.
(See Adv. Index Page 178)
Growell Pot Co., The (Flower Pots)
New York, N. Y.
Lewis, G. B.
Watertown, Wis.
Missouri Pottery & Mfg. Co.
Kansas City, Mo.
Randall Co., A. L.
Chicago, Ill.
Syracuse Pottery, Inc.
Syracuse, N. Y.
Uniform Products Co.
Lancaster, Pa.

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Neidinger Co., Jos. G.
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Raedlein Basket Co.
Chicago, Ill.
Savo Mfg. Co.
Chicago, Ill.
Sprauger & Johnson
Atlantic, Iowa

Success Mfg. Co.
Gloucester, Mass.
Syracuse Pottery, Inc.
Syracuse, N. Y.
Venezia Garden Orn. Co.
(Concrete Boxes)
Chicago, Ill.
Woodcraft Co., The
Dalton, N. Y.
Woodcraft Products Co.
Milford, Ind.
Zane Pottery Co. (Pottery Boxes)
So. Zanesville, Ohio

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Hooker Co., H. M.
Chicago, Ill.
Metropolitan Material Co.
Brooklyn, N. Y.

GLASS SUBSTITUTE

Acetol Products Co.
New York, N. Y.

GREENHOUSE MANUFACTURERS

American Greenhouse Mfg. Co.
Chicago, Ill.

ARE YOU SELLING FIELD SEED—

*through the
farmers
elevators?*

They are the logical retail sales distributors in practically every community.

Add to your list of dealer patrons by carrying your selling message in



Eighty-three years of service to its field. Write for advertising rates.

GRAIN WORLD
1018 S. WABASH AVE.
CHICAGO

THE HOME GARDEN SHOVEL OR SPADE-TROWEL



brought a new source of joy to this woman for her light tasks among the flowers.

8 ½ x 7 ½ in. blade of best carbon steel, polished and lacquered, and with popular rolled-over steps. 33 in. straight grained handle. Weight, about 2 lbs. each.

A COMPLETE LINE
of garden tools carried in stock, including the celebrated Molybdenum spades and shovels of
THE WOOD SHOVEL & TOOL CO.

Write for our new 72-page illustrated catalogue for dealers.

A. M. LEONARD & SON
PIQUA OHIO

GREENHOUSE AND FLORAL SUPPLIES—Continued

Greenhouse Manufacturers—Continued

- Callahan, T. J.
Dayton, Ohio
- Dietsch Co., A.
Chicago, Ill.
- Foley Greenhouse Mfg. Co.
Forest Park, Ill.
- Ickes-Braun Mill Co.
Chicago, Ill.
- King Construction Co.
North Tonawanda, N. Y.
- Lord & Burnham Co.
Chicago, Ill.
- Metropolitan Material Co.
Brooklyn, N. Y.
- Moninger & Co., John C.
Chicago, Ill.

GREENHOUSE MATERIAL

- American Greenhouse Mfg. Co.
Chicago, Ill.
- Callahan Co., T. J.
Dayton, Ohio
- Dietsch Co., A.
Chicago, Ill.
- Jacobs & Co., S.
Brooklyn, N. Y.
- Metropolitan Material Co.
Brooklyn, N. Y.
- Moninger & Co., John C.
Chicago, Ill.

HOT BED SASH

- Callahan Co., T. J.
Dayton, Ohio
- Dietsch Co., A.
Chicago, Ill.
- Foley Greenhouse Mfg. Co.
Chicago, Ill.
- Gordon-Van Tine Co.
Davenport, Iowa
- Jacobs & Co., S.
Brooklyn, N. Y.
- Metropolitan Material Co.
Brooklyn, N. Y.
- Moninger & Co., John C.
Chicago, Ill.

HOT BED SUPPLIES

- Cleveland Buckram & Bag Co.
Cleveland, Ohio
(See Adv. Index Page 178)
- Dreer, Henry A.
Philadelphia, Pa.
- Levine Bedding Co., David H. (Mats)
New Haven, Conn.
- Metropolitan Material Co.
Brooklyn, N. Y.
- Palmer Bros.
New London, Conn.
- Uniform Products Co.
Lancaster, Pa.

LABELS—PLANT

- Ball & Socket Mfg. Co.
West Cheshire, Conn.
- Peerless Plant Stake Co., The
Waterloo, Iowa

MOSS, SPHAGNUM

- American Bulb Co.
Chicago, Ill.
(See Adv. Index Page 178)
- Amundson Co., A. J.
City Point, Wis.
- Vaughan's Seed Store
Chicago, Ill.
- Williamson, Garfield
New York, N. Y.

MOSS, PEAT

- Atkins & Durbrow, Inc.—(Horticultural)
New York, N. Y.

- Kier Peat Corp.
Morrison, Ill.
- Loewith, Inc., Julius
New York City, N. Y.
(See Adv. Index Page 178)
- McHutchison & Co.
New York, N. Y.
(See Adv. Index Page 178)
- Pennrich & Co., Inc.
New York, N. Y.
- U. S. Trading Co., Importers
Jacksonville, Fla.
- Vaughan's Seed Store
Chicago, Ill.

POTS—FLOWER

- Bellevue Clay Products Co.
Bellevue, Iowa
- Bird & Son
East Walpole, Mass.
(See Adv. Index Page 178)
- Central Fibre Co., Inc.
South Gardiner, Maine
- Elverson Pottery Co., W. H.
New Brighton, Pa.
- Findlay Clay Pot Co.
Findlay, Ohio
- Growell Pot Co., Inc.
New York, N. Y.
- Harris Mfg. Co., A. W.
Sleepy Eye, Minn.
- Hews & Co., A. H.
Cambridge, Mass.
- Hilfinger Bros.
Fort Edward, N. Y.
- Ionia Pottery Co.
Ionia, Mich.
- Kahler Pottery Co.
Louisville, Neb.
- Keller Pottery Co., Geo.
Chicago, Ill.
- Keller Pottery Co.
Norristown, Pa.
- Louisville Pottery Co., Inc.
Louisville, Ky.
- Milwaukee Pottery Co.
Milwaukee, Wis.
- Mono Service Co.
Newark, N. J.
- Neponset Co.
East Walpole, Mass.
- Peters & Reed Pottery Co.
Zanesville, Ohio
- Pierce, E. Allen
Waltham, Mass.
- Pittsburg Pottery Co.
Pittsburg, Kan.
- Progressive Clay Co.
Philadelphia, Pa.
- Red Wing Union Stoneware Co.
Red Wing, Minn.
- Richmond Cedar Works (Cedar Tubs)
Richmond, Va.
- Rochelle & Sons, F. W.
Chester, N. Y.
- St. Louis Pottery & Mfg. Co.
St. Louis, Mo.
- Springfield Clay Mfg. Co.
Springfield, Ohio
- Syracuse Pottery Co.
Syracuse, N. Y.
- Uhl Pottery Co.
Evansville, Ind.
- Washington Brick Co.
Spokane, Wash.
- Zane Pottery Co.
So. Zanesville, Ohio

POT SAUCERS—FLOWER

- Bird & Son
East Walpole, Mass.
(See Adv. Index Page 178)
- Brush Pottery Co.
Zanesville, Ohio
- Hilfinger Bros. Pottery
Fort Edward, N. Y.

Jobbers' Discount

on

FULTON'S

Plantabbs

ODORLESS PLANT FOOD TABLETS

25c size.....	\$ 3.00	per dozen
50c size.....	6.00	per dozen
\$1.00 size.....	12.00	per dozen
\$3.50 size.....	42.00	per dozen

Less 33 1/3% and 15%

Terms, 2% in 10 days

Net 30 days

Delivery charges prepaid

Free advertising matter
supplied

PLANT PRODUCTS COMPANY

117 Fulton Bldg.
BALTIMORE, MD.

A NEW, SAFE SPRAY for Healthier Gardens

FOR FLOWERS, VEGETABLES, VINES, SHRUBS

SHEPS Plant Spray

This NON-POISONOUS, mailable spray controls and kills both sucking and chewing insects, including Aphids, Thrips, Green Flies, Mealy Bugs, Worms, Caterpillars and many others. But while it is sure death to insects, it is absolutely harmless to humans, animals and birds. Neither will it injure the most delicate bloom or plant, but benefits both soil and foliage. Sheps Plant Spray is the easiest to mix. No tedious and time killing soap solutions to prepare. Simply mix with designated amount of water. In twenty seconds you are ready to spray. Endorsed by Florists, Nurserymen, Seedsmen and other users. Fine for the home garden.



Sheps Plant Spray is
NON-POISONOUS and
can be sent through the
U. S. Mail.

Be sure to write
for prices and
dealer's proposition.
Nationally
advertised. A
quick and profit-
able seller. Free
sample on re-
quest.

SHEPARD
Laboratories
Council Bluffs, Ia.



The MILO

Waterproof Hotbed Mat

Four years of successive employment has demonstrated the superiority of MILO mats over all others.

From Maine to California—from Texas to Minnesota growers have found MILO mats to be absolutely impervious to rain, sleet and snow—warmer than any other mat—easy to handle.

MILO mats are made in sizes 40x78 in. and 78x80 in. Also in continuous lengths. A mat 78 in. wide by 50 ft. long will cover fifteen 40x76-in. sash, weighs only 90 lbs. and can be taken off or put on by one man in two minutes.

If you want real protection for your hotbeds or cold frame—want to save time and money, write us. Tell us how many mats you require and the lengths of frames and we will quote prices that will interest you.

Manufactured by

The Cleveland Buckram & Bag Co.

1320 Hird Ave. Cleveland, Ohio

BIRD'S

"Improved"

NEPONSET PAPER FLOWER POT

(Waterproof)



BIRD'S "Improved" Pot recommended for greenhouse use where plants are to stand six to eight weeks.

Ideal for transplanting and
shipping



Write your dealer for samples
and price. Immediate delivery.

BIRD & SON, inc.

East Walpole, Mass.

GREENHOUSE AND FLORAL SUPPLIES—Concluded**Pot Saucers—Flower—Continued**

Mono Service Co.
Newark, N. J.
Northwestern Pottery Co.
Chicago, Ill.
Syracuse Pottery Co., Inc.
Syracuse, N. Y.
Zane Pottery Co.
Zanesville, Ohio

Meehan Co., Thomas B.
Dresher, Pa.
Schoorl, Adrian J.
San Francisco, Cal.

SEED AND PLANT FORCERS

American Fork & Hoe Co.
Cleveland, Ohio
(See Adv. Index Page 178)

Ball Mfg. Co.
Glenside, Pa.
Brainard's Nurseries & Greenhouses, Inc.
Des Moines, Iowa

TREE AND PLANT TUBS

Richmond Cedar Works
Richmond, Va.

INOCULANTS AND PLANT FOODS**INOCULANTS**

Dickinson Co., The Albert
Chicago, Ill.
Earp Laboratories
Bloomfield, N. J.
Edwards Laboratory, The
Lansing, Mich.
(See Adv. Index Page 178)
Farber Seed Co.
St. Joseph, Mo.
(See Adv. Index Page 178)
Franklin Laboratories, Inc.
Columbus, Ohio
Lockhart Laboratories
Atlanta, Ga.
McQueen Bacteria Co.
Baltic, Ohio
(See Adv. Index Page 178)
Mulford Co., H. K.
Philadelphia, Pa.
(See Adv. Index Page 178)
Nitragin Co., The
Milwaukee, Wis.
(See Adv. Index Page 178)
Standard Inoculation Co.
Troy, Pa.
Standard Inoculation Co.
Glen Ridge, N. J.
Stimulant Laboratories, Inc.
Long Island City, N. Y.
(See Adv. Index Page 178)
Uniform Products Co.
Lancaster, Pa.
Urbana Laboratories
Urbana, Ill.
(See Adv. Index Page 178)
Western Legumo-germ Co.
Topeka, Kan.

Barrett Co., The
New York City, N. Y.
Bon Arbor Chemical Co.
Paterson, N. J.
Darling & Co.
Chicago, Ill.
Hoover Laboratories, Inc.
Freeport, Ill.
International Agricultural Corp.
New York, N. Y.
Magnesia Products Co.
Milwaukee, Wis.
National Plant Food Co.
Eau Claire, Wis.
Nitragin Co., The
Milwaukee, Wis.
(See Adv. Index Page 178)
Plant Products Co.
Baltimore, Md.
(See Adv. Index Page 178)
Pulverized Manure Co.
Chicago, Ill.
(See Adv. Index Page 178)
Smith Agricultural Chemical Co.
Columbus, Ohio
Stadler Products Co.
Cleveland, Ohio
Stimulant Laboratories, Inc.
Long Island City, N. Y.
(See Adv. Index Page 178)
Swift & Co.
Chicago, Ill.
(See Adv. Index Page 178)
Synthetic Nitrogen Products Corp.
New York, N. Y.
(See Adv. Index Page 178)
Temley Plant Food Co.
Cleveland, Ohio
Virginia Carolina Chem. Co.
Richmond, Va.
(See Adv. Index Page 178)
Williamson, Garfield
New York, N. Y.

PLANT FOODS

Armour Fertilizer Works
Chicago, Ill.

LAWN IMPLEMENTS AND SUPPLIES**GARDEN HOSE**

Breeze Metal Hose & Mfg. Co.
Newark, N. J.
Diamond Rubber Co., Inc.
Akron, Ohio
(See Adv. Index Page 178)
Electric Hose & Rubber Co.
Wilmington, Del.
Goodrich Rubber Co.
Akron, Ohio

Goodyear Rubber Co.
Akron, Ohio
Hayes Pump & Planter Co.
Galva, Ill.
Leonard & Son, A. M.
Piqua, Ohio
(See Adv. Index Page 178)
Metropolitan Material Co.
Brooklyn, N. Y.
Wilson Inc., Andrew
Springfield, N. J.
(See Adv. Index Page 178)



Bigger Sales In 1929

DURING the past year, Bloomaid was offered to the public for the first time. Thousands tried it. Results were amazing. Within 30 days plants treated were almost double the size of those which had no Bloomaid. They bloomed 10 days to two weeks earlier. Expert greenhouse men were astonished at its effect on growth and bloom.

You can profit by cataloging and selling it in 1929 because

1st: It is the greatest aid yet produced for growing finer flowers, shrubs and vegetables.

2nd: Every user will get better results from your seed.

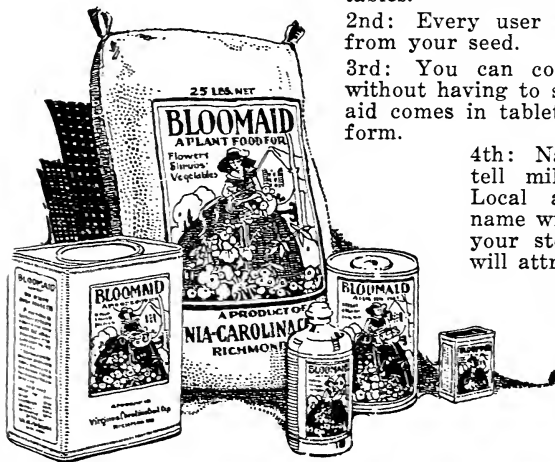
3rd: You can concentrate on one line without having to stock many, for Bloomaid comes in tablet, liquid and pulverized form.

4th: National advertising will tell millions about Bloomaid. Local advertising over your name will focus the demand on your store. Beautiful posters will attract buyers.

Write today for our proposition to seedsmen.

**VIRGINIA-CAROLINA
CHEMICAL CORP.**
Lawn & Garden Dept.
Richmond, Va.

Packed in boxes of 125 tablets, in liquid form, in 1 and 5 lb. cans and 25 and 100 lb. bags.



LAWN IMPLEMENTS AND SUPPLIES—Continued

HEDGE TRIMMERS

Cronk & Carrier Mfg. Co.
Montour Falls, N. Y.
Disston & Sons, Inc., Henry
Philadelphia, Pa.
Jaeger Prod. Co.
Trenton, N. J.
Leonard & Son, A. M.
Piqua, Ohio
(See Adv. Index Page 178)
Trenton Patent Mfg. Co.
Trenton, N. J.

HOSE CLAMPS

Allen Mfg. Co., W. D.
Chicago, Ill.

HOSE MENDERS

Allen Mfg. Co., W. D.
Chicago, Ill.

HOSE NOZZLES

Allen Mfg. Co., W. D.
Chicago, Ill.

LAWN EDGE TRIMMERS

Allen & Co., Inc., S. L.
Philadelphia, Pa.
Ideal Mfg. Co.
Davenport, Iowa
Imperial Bit & Snap Co.
Racine, Wis.
Leonard & Son, A. M.
Piqua, Ohio
(See Adv. Index Page 178)
Miller & Sons Co.
Waterloo, Iowa

LAWN FURNITURE AND DECORATIONS

American Thermo-Ware Co., Inc.
(Gazing Globes)
New York, N. Y.
(See Adv. Index Page 178)
Express Body Corp.
Crystal Lake, Ill.
Hartman-Sanders
Chicago, Ill.
Homecraft Spec. Co.
Mattoon, Ill.
Logan Co.
Louisville, Ky.
Northwest Fence & Wire Works
Portland, Ore.
Randall Co., A. L.
Chicago, Ill.
Smith Iron & Wire Wks., F. P.
Chicago, Ill.
Syracuse Pottery, Inc.
Syracuse, N. Y.
Woodcraft Co., The
Dalton, N. Y.
Woodcraft Products Co.
Milford, Ind.

LAWN GRASS SEED

(See Page 105)

LAWN MOWER SHARPENERS

Berghman Co.
Chicago, Ill.

LAWN MOWERS

American Lawn Mower Co.
Muncie, Ind.
Clarinda Mfg. Co.
Clarinda, Iowa.
Clipper Lawn Mower Co.
Dixon, Ill.

Coldwell Lawn Mower Co.
Newburgh, N. Y.
Cushman Motor Works
Lincoln, Nebr.
Eclipse Lawn Mower Co.
Prophetstown, Ill.
Elwood Lawn Mower Mfg. Co.
Elwood, Ind.
Gilson Mfg. Co.
Port Washington, Wis.
Henley Lawn Mower Co.
Richmond, Ind.
Ideal Power Lawn Mower Co.
Lansing, Mich.
Jacobsen Mfg. Co.
Racine, Wis.
Milbradt Mfg. Co.
St. Louis, Mo.
Modern Machine Works (Power Mowers)
Milwaukee, Wis.
Moto-Mower Co.
Detroit, Mich.
Philadelphia Lawn Mower Co.
Philadelphia, Pa.
Red-E. Mfg. Co.
Milwaukee, Wis.
Rich Steel Prod. Co.
Battle Creek, Mich.
Roseman Tractor Mower Co.
Evanston, Ill.
Stearns & Co., E. C.
Syracuse, N. Y.
Townsend & Co., S. P.
Orange, N. J.
Worthington Mower Co.
Stroudsburg, Pa.

LAWN ROLLERS

Graham & Co., John H.
New York City, N. Y.
Leonard & Son, A. M.
Piqua, Ohio
(See Adv. Index Page 178)
Wildner-Strong Implement Co.
Monroe, Mich.

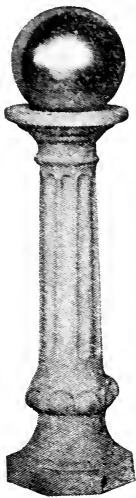
LAWN SPRINKLERS

Allen Mfg. Co., W. D.
Chicago, Ill.
Armstrong Mfg. Co.
Huntington, W. Va.
Dayton Irrigation Co.
Dayton, Ohio
Double Rotary Sprinkler Co.
Kansas City, Mo.
General Basic Products Co.
Seattle, Wash.
Hardware Supply Co.
Grand Rapids, Mich.
Imperial Bit & Snap Co.
Racine, Wis.
Leonard & Son, A. M.
Piqua, Ohio
(See Adv. Index Page 178)
March Automatic Irrigation Co.
Muskegon, Mich.
Peck Bros. & Co.
New Haven, Conn.
Rainbow Sprinkler Co.
Jacksonville, Fla.
Scollay, John A.
Brooklyn, N. Y.
Skinner Irrigation Co.
Troy, Ohio
Wilgus Mfg. Co.
Los Angeles, Calif.
X. L. Mfg. Co.
Chicago, Ill.

LIME

International Agricultural Corp.
New York, N. Y.
Lavino & Co., E. J.
Philadelphia, Pa.
Marble Cliff Quarries Co.
Columbus, Ohio

GAZING GLOBES



Gazing Globes displayed on pedestals of your own manufacture bring a lot of new business.

A T C O Gazing Globes are made of white, heavy glass, and the silvering is put on so that it will last without blemish.

We have been importers of Gazing Globes for 18 years and carry stock of 8", 10", 12", 14", 16" and 18" sizes.

Write for Prices

American Thermo-Ware Co., Inc.
16 Warren St., New York, N. Y.

Do You Agree With This Dealer?



"Reef Brand is easy to handle. No waste. No broken bag. The elimination of dust makes Reef Brand 100% value both to the dealer and his trade."

Win friends for your store with Reef Brand. Increase your business and your profit. Everywhere poultrymen are demanding Reef Brand for their flock. Stock up with Reef Brand and answer every demand with a sale.

Reef Brand
REGISTERED IN U.S. PATENT OFFICE
Pure Crushed Oyster Shell for Poultry
GULF CRUSHING COMPANY
New Orleans

"GROZ-IT" For Lawns and Gardens

Pulverized Sheep Manure

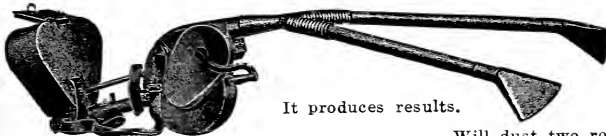
Many times as efficient as ordinary manure. Odorless, does not draw flies, easy to handle, guaranteed free from weed seeds and foreign matter—packed in 100-pound bags. For your lawns, gardens, window boxes, potted plants, golf greens, orchards, vineyards. It is good for anything that grows.

PACIFIC MANURE & FERTILIZER CO.
MANUFACTURERS AND DISTRIBUTORS

429 Davis Street

San Francisco, Cal.

The Peerless Hand Dust Gun



It produces results.

will make friends.
Supply your trade with a real hand duster.

It is perfectly balanced—load divided front and rear.
The amount of discharge can be regulated.
Fan is ball bearing and hub is packed in grease.

Will dust two rows.
Will dust underneath the leaves.
Will dust anything from strawberries to apples.
Write for prices and mention this paper.

Peerless Dust Gun Company

5100 St. Claire Ave.
Cleveland, Ohio

LAWN IMPLEMENTS AND SUPPLIES—Concluded

Lime—Continued

Wilson, Inc., Andrew
Springfield, N. J.

(See Adv. Index Page 178)

MOLE AND ANIMAL TRAPS

Abington Trap Co.
Abington, Ill.

Michigan Wire Goods Co.

Niles, Mich.

(See Adv. Index Page 178)

Roper Co., J. R.
San Leandro, Calif.

RAKES—BAMBOO

American Import Co.
San Francisco, Calif.

PETS AND PET SUPPLIES

BIRDS

Bishop, Henry, The Bird Man
Baltimore, Md.
Des Moines Bird Co., Inc.
Des Moines, Iowa
Hedwig's Pet Shop
Scranton, Pa.
Mussogs Bird Store
Philadelphia, Pa.
National Pet Shops
St. Louis, Mo.
Robison, Ansel W.
San Francisco, Calif.
Schlagheck, Jos.
Toledo, Ohio
Schmeiser's Canary & Pet Plant
Buffalo, N. Y.
"Steins" Canary Plant
Philadelphia, Pa.
Vahle, E. C.
Chicago, Ill.

BIRD CAGES

Hendryx Co., Andrew B.
New Haven, Conn.
Lindemann & Co., O.
New York, N. Y.
National Pet Shops
St. Louis, Mo.
Raedlein Basket Co.
Chicago, Ill.
Schlagheck, Jos.
Toledo, Ohio
Schoemann & Mayer
New York City, N. Y.
"Steins" Canary Plant
Philadelphia, Pa.

BIRD CAGE STANDS—METAL

Lindemann & Co., O.
New York, N. Y.
Hendryx Co., Andrew B.
New Haven, Conn.
Woodcraft Products Co.
Milford, Ind.

BIRD HOUSES

Burt Co., William D.
Dalton, N. Y.
Crescent Co.
Toms River, P. O. N. J.
(See Adv. Index Page 178)
Dodson, Jos. H.
Kankakee, Ill.
Express Body Corp.
Crystal Lake, Ill.
Rieber Bird Homes
West Webster, N. Y.
Schaad & Son, E. J.
Merrill, Wis.
Schling Seedsmen, Inc., Max
New York, N. Y.
Woodcraft Co., The
Dalton, N. Y.

BIRD SEED AND SUPPLIES

American Seed & Food Products
Chicago, Ill.
Bartels, Henry
New York, N. Y.
Burnet Co., Inc.
Newark, N. J.
Burt Co., W. D.
Dalton, N. Y.Curtin Company, George L.
New York, N. Y.
Evans Bros.
Evanston, Ill.
Hinton & Co., Inc.
New York, N. Y.
Horton Co., Inc., F. T.
Hoboken, N. J.
Imperial Pet Shop
New York, N. Y.
Johnson, Inc., J. Oliver
Chicago, Ill.
Justrite Co., The
Milwaukee, Wis.
Magnesia Products Co.
Milwaukee, Wis.
Miracrus Bird Food Co.
Clifton Hill, Mo.
National Pet Shops
St. Louis, Mo.
Nature Friend, The
New York, N. Y.
Philadelphia Seed Co.
Philadelphia, Pa.
(See Adv. Index Page 178)
Radwaner Seed Co., I. L.—(Bird Seed)
New York City, N. Y.
(See Adv. Index Page 178)
Rohleder, J. O.
Leipzig Entrits. sch., Germany
Scarlett & Co., Wm. G.—Bird Food
Baltimore, Md.
Schlagheck, Jos.
Toledo, Ohio
"Steins" Canary Plant
Philadelphia, Pa.
Von Damm, F. H.—Bird Food
Brooklyn, N. Y.

DOG FOODS AND SUPPLIES

Bartels, Henry
New York, N. Y.
Battle Creek Dog Food Co.
Battle Creek, Mich.
(See Adv. Index Page 178)
Bennett Biscuit Co., F. H.
New York City, N. Y.
Champion Animal Food Co.
Minneapolis, Minn.
Chappell Bros., Inc.
Rockford, Ill.
Glover Co., Inc., H. Clay
New York, N. Y.
Good, Inc., James
Philadelphia, Pa.
Justrite Co., The
Milwaukee, Wis.
Imperial Biscuit Co.
Sackett's Harbor, N. Y.
Olding Food Corp., Dr.
New York, N. Y.
Peerless Dog Food Co.
Battle Creek, Mich.
Perfection Food Co.
Battle Creek, Mich.
Potter-Wrightington, Inc.
Boston, Mass.
Russell-Heckle Seed Co.
Memphis, Tenn.
Scott Co., I. W.
Pittsburgh, Pa.
Spratt's Patents, Ltd.
Newark, N. J.



BUILD UP YOUR DOG FOOD SALES



WITH

MILLER'S A 1 PRODUCTS

"Battle Creek Health Food for Dogs"

Seed Dealers everywhere are building a tremendous business on dog food foods.

Carry the line your customers are asking for, over 3,000,000 pounds of Miller's Dog Foods sold last year.

Our National and direct mail advertising campaign will help you build a fast growing year round business.

FREE—

A merchandising plan for Seed Dealers will be sent free. This explains how you can clinch the dog food business in your city. Write for samples and particulars.



Battle Creek Dog Food Co.

Battle Creek, Michigan



MOLE TRAPS WIRE POTATO SCOOPS

in

Popular Demand

Mr. Seed Store Owner—

Here are two splendid items for retail seed store distribution; they are specialties that fit in and find a ready sale with seed store patronage.

Mr. Catalog Seedsman—

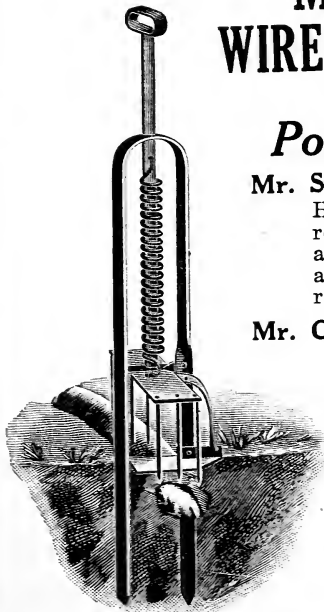
You will be surprised by the large per cent of your orders that include these two standard items.

We furnish electros for listing.

WRITE TODAY FOR DEALERS'
PRICES

**MICHIGAN
WIRE GOODS CO.**

Second St., Niles, Mich.



PETS AND PET SUPPLIES—Continued**Dog Foods and Supplies—Continued**

Wapler Co., Nicholas
New York, N. Y.
Wilson & Co., Inc.
Chicago, Ill.

GOLD FISH AND SUPPLIES

American Seed & Food Products Co.
Chicago, Ill.
Ashbourne Goldfish & Supply Co.
Burlington, Iowa
Auburndale Goldfish Co.
Chicago, Ill.
Bishop, Henry—The Bird Man
Baltimore, Md.
Bruce Fisheries
Thornburg, Iowa
Hanz, H. W.
New Braunfels, Texas
Heck, C. C. (Gold Fish Farm)
Greeley, Colo.
Justrite Co., The
Milwaukee, Wis.

Lakeview Ponds, The
Mt. Airy, Cincinnati, Ohio
Loveland Goldfish Farms
Loveland, Ohio
Mussog's Bird Store
Philadelphia, Pa.
Putnam's Fisheries
Buffalo, N. Y.
Schlagheck, Joseph
Toledo, Ohio
Spring Lake Fishery
Waldron, Ind.
Tamms Silica Co. (Pebbles)
Chicago, Ill.
Vahle, E. C.
Chicago, Ill.
Wapler Co., Nicholas
New York, N. Y.

RABBITS

Summit Rabbitry
Bernharts, Pa.

POULTRY SUPPLIES**BABY CHICKS**

Acme Baby Chick Hatchery
Peoria, Ill.
Atz Hatchery Co.
Milltown, Ind.
Barr & Son, P.
Zeeland, Mich.
Berry's Poultry Farm
Clarinda, Iowa
Burt Co., W. D.
Dalton, N. Y.
Chick Hatchery, O. K.
Frenchtown, N. J.
Gilt Edge Poultry Ranch
Zeeland, Mich.
Hoosier Chick Hatchery
Indianapolis, Ind.
Illinois Hatchery
Metropolis, Ill.
Johnson Hatchery, Alf.
Leonardville, Kans.
Lakeview Poultry Farm
Holland, Mich.
Mary Maude Farms
Portland, Ind.
Meadow View Hatchery
St. Peter, Minn.
Miller Hatcheries
Lancaster, Mo.
Missouri Hatchery
Bowling Green, Mo.
Nabob Hatcheries
Gambier, Ohio
Sunshine Hatchery
Corydon, Ind.
Van Wert Hatchery
Van Wert, Ohio

BABY CHICK BOXES

Anderson Box Co.
Indianapolis, Ind.
Hinde & Dauch Paper Co.
Sandusky, Ohio
Keipper Cooping Co.
Milwaukee, Wis.
Sefton Mfg. Co.
Chicago, Ill.

BROODERS

American Brooder Corp.
Alhambra, Calif.
(See Adv. Index Page 178)
Buckeye Incubator Co.
Springfield, Ohio
Buffalo Incubator Co.
Buffalo, N. Y.

Hoelt & Co., Inc.

North Chicago, Ill.

(See Adv. Index Page 178)

Liberty Marvel Co.
Philadelphia, Pa.
Miller Co., J. W.
Rockford, Ill.
Oakes Mfg. Co.
Tipton, Ind.
Ohio Rake Co.
Dayton, Ohio
Phelan Brooder Co.
Oklahoma City, Okla.
Queen Incubator Co.
Lincoln, Neb.
Quisenberry-Hobbs Co.
Kansas City, Mo.
(See Adv. Index Page 178)
Reliable Incubator & Brooder Co.
Quincy, Ill.
Sheer, H. M.
Quincy, Ill.
Simplex Brooder Stove Co.
Grand Rapids, Mich.
(See Adv. Index Page 178)
Thermo-Electric Co., Inc.
New Orleans, La.

BROODERS—STORAGE

Buckeye Incubator Co.
Springfield, Ohio
Miller-Ross Company
Lancaster, Pa.

CARBOLINEUM

C-A Wood Preserver Co.
St. Louis, Mo.
(See Adv. Index Page 178)
Carbolineum Wood Preserving Co.
Milwaukee, Wis.

CHARCOAL-GROUND HARDWOOD

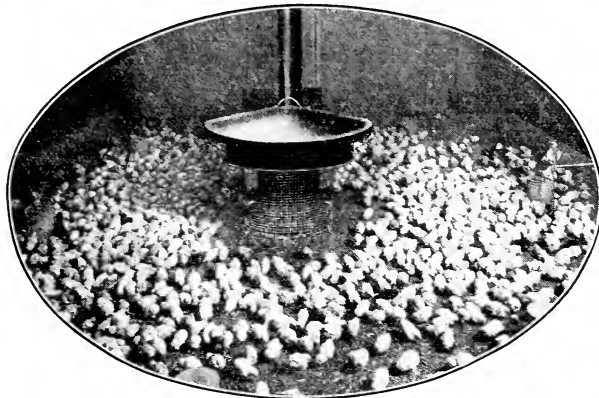
Gulf City Mfg. Co.
Mobile, Ala.
Tennessee Eastman Corp.
Kingsport, Tenn.

DISINFECTANTS

Allen Mfg. Co., D. E.
Carthage, N. Y.
Bourbon Remedy Co.
Lexington, Ky.
C-A Wood Preserver Co.
St. Louis, Mo.
(See Adv. Index Page 178)
Carbolineum Wood Preserving Co.
Milwaukee, Wis.

SIMPLEX BROODER STOVE

GREATEST MOTHER OF THEM ALL



For 16 years the Simplex Brooder Stove has brooded chicks successfully for thousands of poultry men. The oil burning stove with a smoke pipe that acts as a vent pipe — powerful direct oil burner — automatic heat regulator — Simplex Stoves save time, labor and bother — makes more profits for the user. Every

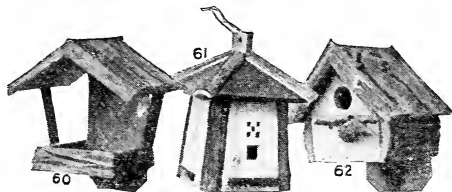
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Rustic
Cedar
Bird
Houses



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\$5.00"

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Write for prices.

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St. Louis, Mo.



POULTRY SUPPLIES—Continued

Disinfectants—Continued

- Carbola Chemical Co.,
Long Island City, N. Y.
- Chipman Chem. Engineering Co., Inc.
Bound Brook, N. J.
- Conkey Co., G. E.
Cleveland, Ohio
- Friedman Tobacco Products Corp
York, Pa.
- Frost Insecticides
Arlington, Mass.
- Gateway Chemical Co.
Kansas City, Mo.
- General Basic Products Co.
Seattle, Wash.
- General Laboratories
Madison, Wis.
- Germo Mfg. Co.
St. Louis, Mo.
- Good, Inc., James
Philadelphia, Pa.
- LeGear Medicine Co., Dr. L. D.
St. Louis, Mo.
- Modern Products Corp.
Chicago, Ill.
- Pratt Food Co.
Philadelphia, Pa.
- Quisenberry-Hobbs Co.**
Kansas City, Mo.
(See Adv. Index Page 178)
- Sherwin-Williams
Cleveland, Ohio
- Tobacco By-Products and Chemical Corp.**
Louisville, Ky.
(See Adv. Index Page 178)
- Sterelac Co., The
North Chicago, Ill.
- Wilson, Inc., Andrew**
Springfield, N. J.
(See Adv. Index Page 178)

DRINKING FOUNTAINS

- American Brooder Corp.**
Alhambra, Calif.
(See Adv. Index Page 178)
- Baier Bros. Mfg. Co.
Cissna Park, Ill.
- Clarke Tank Co., J. Q.
Crawfordsville, Ind.
- Hoelt & Co., Inc.**
North Chicago, Ill.
(See Adv. Index Page 178)
- Miller Co., J. W.
Rockford, Ill.
- National Poultry Band Co.
Newport, Ky.
- Oakes Mfg. Co.
Tipton, Ind.
- Perfection Mfg. Co.
Monmouth, Ill.
- Quisenberry-Hobbs Co.**
Kansas City, Mo.
(See Adv. Index Page 178)
- Reliable Inc. & Brooder Co.
Quincy, Ill.
- Simplex Brooder Stove Co.**
Grand Rapids, Mich.
(See Adv. Index Page 178)
- Thompson & Sons, O. E.
Ypsilanti, Mich.

EGG CARTONS

- Gaylord, Inc., Robert
St. Louis, Mo.
- Hinde & Dauch Paper Co.
Sandusky, Ohio
- Hoelt & Co., Inc.**
North Chicago, Ill.
(See Adv. Index Page 178)
- Metal Egg Crate Co.
Fredericksburg, Va.
- Safe-Service Egg Case Co.
Three Rivers, Mich.
- Surety Egg Box Co.
Hohokus, N. J.

FEED—POULTRY

- Ackerman Co., The**
Lima, Ohio
(See Adv. Index Page 178)
- Albert Angell Jr. Co.
Chicago, Ill.
- American Dry Milk Institute
Chicago, Ill.
- American Milling Co.
Peoria, Ill.
- Arcady Farms Milling Co.
Chicago, Ill.
- Badenoch Co., J. J.
Chicago, Ill.
- Bell's, Ltd.
Prince Albert, Saskatchewan
- Blamberg Bros., Inc.**
Baltimore, Md.
(See Adv. Index Page 178)
- Burrell-Dugger Co.
Indianapolis, Ind.
- Chapin & Co.
Chicago, Ill.
- Collis Products Co. (Dried Buttermilk)
Clinton, Iowa
- Conkey Co., G. E.
Cleveland, Ohio
- Consolidated Products Co.
(Semi-Solid Buttermilk)
Chicago, Ill.
- Dacotah Seed Co.**
Bismarck, N. D.
(See Adv. Index Page 178)
- Darling & Co.
Chicago, Ill.
- Dickinson Co., The Albert
Chicago, Ill.
- Douglas Co.
Cedar Rapids, Iowa
- Edgar-Morgan Co.
Memphis, Tenn.
- Edwards & Co., Inc., S. T.
(Dried Buttermilk and Dry Skim Milk)
Chicago, Ill.
- Harvey Seed Co.**
Buffalo, N. Y.
(See Adv. Index Page 178)
- Hardeman-King Co.
Amarillo, Texas
- Hales & Hunter Co.
Chicago, Ill.
- Hecker, H-O Co., Inc.
Buffalo, N. Y.
- Jameson-Hevener Co.
St. Paul, Minn.
- Ko-Vita Co. (Cod Liver Oil)
Bloomfield, N. J.
- Krause Milling Co.
Milwaukee, Wis.
- Magill & Co.**
(Operating Fargo Seed House)
Fargo, N. D.
(See Adv. Index Page 178)
- Marden Wild Corp. (Cod Liver Oil)
Somerville, Mass.
- National Oil Products Co. (Cod Liver Oil)
Harrison, N. J.
- Northrup, King & Co.**
Minneapolis, Minn.
(See Adv. Index Page 178)
- Northwestern Yeast Co.
Chicago, Ill.
- Ouren Seed Co.**
Council Bluffs, Iowa
(See Adv. Index Page 178)
- Philadelphia Seed Co.**
Philadelphia, Pa.
(See Adv. Index Page 178)
- Pratt Food Co.
Philadelphia, Pa.
- Quaker Oats Co.
Chicago, Ill.
- Quisenberry-Hobbs Co. (Mineral)**
Kansas City, Mo.
(See Adv. Index Page 178)

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*the
Moth, Weevil
and Worms*

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ANNIA GERM**

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100% *Active Ingredients*

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HENRY F. MITCHELL SEED CO. Philadelphia, Pa.

D. LANDRETH SEED CO.

Bristol, Pa.

J. D. LONG SEED CO.

Boulder, Colo.

BOWMAN BROS. SEED CO.

Concordia, Kan.

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Sole Manufacturers and Distributors

POULTRY SUPPLIES—Continued

Feed—Poultry—Continued

- Radwaner Seed Co., I. L.**
New York City, N. Y.
(See Adv. Index Page 178)
- Ralston Purina Co.**
St. Louis, Mo.
- Sanders Mfg. Co., J. M.**
Atlanta, Ga.
- Scarlett & Co., Wm. G.**
Baltimore, Md.
- Tioga Mill & Elevator Co.**
Waverly, N. Y.
- Ubiko Milling Co.**
Cincinnati, Ohio
- Universal Mills**
Ft. Worth, Texas
- Universal Products Sales Co., Inc.**
New York, N. Y.
- Vitality Mills**
Chicago, Ill.
- Washburn-Crosby Co.**
Minneapolis, Minn.
- Wells-Osen Milling Co.**
Depere, Wis.
- Wilson & Co., Inc.**
Chicago, Ill.
- Wood & Son, T. W.**
Richmond, Va.

FEED HOPPERS

- American Brooder Corp.**
Alhambra, Calif.
(See Adv. Index Page 178)
- Baier Bros. Mfg. Co.**
Cissna Park, Ill.
- Hicks, H. W.**
Huntington, Ind.
- Hoelt & Co.**
North Chicago, Ill.
(See Adv. Index Page 178)
- Hornbeck, W. M.**
Peoria, Ill.
- Jacobus, M. R.**
New York City, N. Y.
- National Poultry Band Co.**
Newport, Ky.
- Oakes Mfg. Co.**
Tipton, Ind.
- Quisenberry-Hobbs Co.**
Kansas City, Mo.
(See Adv. Index Page 178)
- Thompson & Sons, O. E.**
Ypsilanti, Mich.
- Wasteless Feeder Co.**
Sauk City, Wis.

GRIT

- Georgia Mineral Products Co.**
Tate, Ga.
- Limestone Products Corp. of America**
Newton, N. J.
- Louisiana Crushing Co.**
Houma, La.
- Ohio Marble Co.**
Piqua, Ohio
- Rockfield Products Co.**
Milwaukee, Wis.

INCUBATORS

- American Brooder Corp.**
Alhambra, Calif.
(See Adv. Index Page 178)
- Automatic Incubator Co.**
Delaware, Ohio
- Buckeye Incubator Co.**
Springfield, Ohio
- Buffalo Incubator Co.**
Buffalo, N. Y.
- Des Moines Incubator Co.**
Des Moines, Iowa
- Hoelt & Company, Inc.**
North Chicago, Ill.
(See Adv. Index Page 178)
- Miller Co., J. W.**
Rockford, Ill.
- Oakes Mfg. Co.**
Tipton, Ind.
- Prairie State Incubator Co.**
Homer City, Pa.
- Queen Incubator Co.**
Lincoln, Neb.
- Quisenberry-Hobbs Co.**
Kansas City, Mo.
(See Adv. Index Page 178)
- Reliable Incubator & Brooder Co.**
Quincy, Ill.
- Smith Incubator Co.**
Cleveland, Ohio
- Sure Hatch Incubator Co.**
Fremont, Neb.
- Thermo-Electric Co., Inc.**
New Orleans, La.

LEG BANDS

- Bayerdorfer, M.**
Huguenot Park, N. Y.
- Cadwallader Mfg. Co.**
Salem, Ohio.
- Cyclone Mfg. Co.**
Urbana, Ind.
- Hoelt & Co.**
North Chicago, Ill.
(See Adv. Index Page 178)
- Illinois Supply Co.**
Aurora, Ill.
- Miller Co., J. W.**
Rockford, Ill.
- National Poultry Band Co.**
Newport, Ky.
- Oakes Mfg. Co.**
Tipton, Ind.
- Stiles, Charles L.**
Columbus, Ohio

LICE KILLERS

- Allaire, Woodward & Co.**
Peoria, Ill.
- Bourbon Remedy Co.**
Lexington, Ky.
- Burrell-Dugger Co.**
Indianapolis, Ind.
- C-A Wood Preserver Co.**
St. Louis, Mo.
(See Adv. Index Page 178)
- Carbolineum Wood Preserving Co.**
Milwaukee, Wis.
- Carbola Chemical Co.**
Long Island City, N. Y.
- Conkey Co., G. E.**
Cleveland, Ohio
- Germo Mfg. Co.**
St. Louis, Mo.
- Good, Inc., James**
Philadelphia, Pa.
- Klein-Lambert Co., The**
Blue Island, Ill.
- Lee Co., Geo. H.**
Omaha, Neb.
- LeGear Medicine Co., Dr. L. D.**
St. Louis, Mo.
- Modern Products Corp.**
Chicago, Ill.
- National Poultry Band Co.**
Newport, Ky.
- Pratt Food Co.**
Philadelphia, Pa.
- Quisenberry-Hobbs Co.**
Kansas City, Mo.
(See Adv. Index Page 178)
- Reynolds Mfg. Co.**
Fredericktown, Ohio
- Sherwin-Williams Co.**
Cleveland, Ohio
- Uniform Products Co.**
Lancaster, Pa.
- Wilson, Inc., Andrew**
Springfield, N. J.
(See Adv. Index Page 178)



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Atlantic TO THE **Pacific**
from
Canada TO THE **Gulf of Mexico**

FOR TWENTY YEARS

American Brooders have rendered honest and efficient service to thousands of satisfied users—

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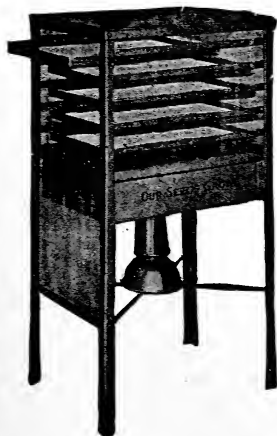
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POULTRY SUPPLIES—Continued

MARKING PUNCHES

- Bayerdorfer, M.
Huguenot Park, N. Y.
Cyclone Mfg. Co.
Urbana, Ind.
Hoelt & Co., Inc.
North Chicago, Ill.
(See Adv. Index Page 178)
Illinois Supply Co.
Aurora, Ill.
Miller Co., J. W.
Rockford, Ill.
National Poultry Band Co.
Newport, Ky.
Reliable Incubator & Brooder Co.
Quincy, Ill.

MEAT SCRAPS

- Darling & Co.
Chicago, Ill.
Parmenter & Polsey Fertilizer Co.
Boston, Mass.
Stadler Products Co.
Cleveland, Ohio
Wilson & Co., Inc.
Chicago, Ill.
Swift & Co.
Chicago, Ill.

NEST EGGS

- Hoelt & Co., Inc.**
North Chicago, Ill.
(See Adv. Index Page 178)
Illinois Supply Co.
Aurora, Ill.
Opal Glass Co.
Fairmont, W. Va.
Reliable Incubator & Brooder Co.
Quincy, Ill.
Reynolds Mfg. Co.
Fredericktown, Ohio
Wood & Son, T. W.
Richmond, Va.

OYSTER SHELLS

- Gulf City Mfg. Co.
Mobile, Ala.
Gulf Crushing Co., Inc.
New Orleans, La.
(See Adv. Index Page 178)
Louisiana Crushing Co.
Houma, La.
Mull Co., Leo B.
Cedar Rapids, Iowa
Peerless Oyster Co.
Baltimore, Md.

PIGEON SUPPLIES

- Bayerdorfer, M.
Huguenot Park, N. Y.
Illinois Supply Co.
Aurora, Ill.
Scarlett & Co., Wm. G.
Baltimore, Md.

POULTRY REMEDIES

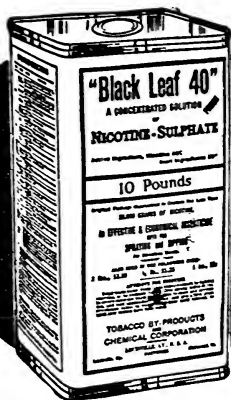
- Barnes Emulsion Co.
St. Louis, Mo.
Bee Dee Stock Medicine Co.
Chattanooga, Tenn.
Bourbon Remedy Co.
Lexington, Ky.
Burrell-Dugger Co.
Indianapolis, Ind.
Carbola Chemical Co.
Long Island City, N. Y.
Conkey Co., G. E.
Cleveland, Ohio
French Co., R. T.
Rochester, N. Y.
Germo Mfg. Co.
St. Louis, Mo.

- Glover Co., Inc., H. Clay
New York City, N. Y.
Good, Inc., James
Philadelphia, Pa.
Illinois Supply Co.
Aurora, Ill.
Klein-Lambert Co.
Blue Island, Ill.
Lee Co., Geo. H.
Omaha, Neb.
LeGear Medicine Co., Dr. L. D.
St. Louis, Mo.
Long Emulsion Co.
Terre Haute, Ind.
(See Adv. Index Page 178)
Modern Products Corp.
Chicago, Ill.
Old Kentucky Mfg. Co.
Paducah, Ky.
Pearson-Ferguson Co.
Kansas City, Mo.
Portland Seed Co.
Portland, Ore.
Pratt Food Co.
Philadelphia, Pa.
Quisenberry-Hobbs Co.
Kansas City, Mo.
(See Adv. Index Page 178)
Salsbury, Dr. J. E.
Charles City, Iowa
Supto Products Co.
Kansas City, Mo.
Tobacco By-Products and Chemical Corp.
Louisville, Ky.
(See Adv. Index Page 178)
Uniform Products Co.
Lancaster, Pa.
Vitone Mineral Co.
Lancaster, Ohio
Wight Company
Lamoni, Ia.
Williamson, Garfield
New York, N. Y.
Wood & Sons, T. W.
Richmond, Va.

POULTRY SUPPLIES

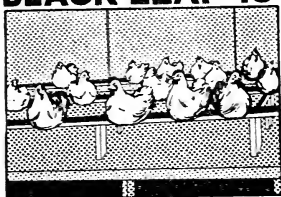
- American Brooder Corp.**
Alhambra, Calif.
(See Adv. Index Page 178)
Bernard Co., Phillip
Sioux City, Iowa
Better Products Co.
Burlington, Wis.
Bowine Mfg. Co.
Melrose, Mass.
Brower Mfg. Co.
Quincy, Ill.
Burnet Co., Inc.
Newark, N. J.
Burrell-Dugger Co.
Indianapolis, Ind.
Cadwallader Mfg. Co.
Salem, Ohio
Clarke Tank Co., J. Q.
Crawfordsville, Ind.
Conkey Co., G. E.
Cleveland, Ohio
Crowley Co., Inc., Geo. H.
San Francisco, Calif.
Cyclone Mfg. Co.
Urbana, Ind.
Evapometer Company
Fargo, N. D.
Felker, C. H.
Boston, Mass.
Gaylord, Inc., Robert
St. Louis, Mo.
Harvey Seed Co.
Buffalo, N. Y.
(See Adv. Index Page 178)
Hoelt & Co., Inc.
North Chicago, Ill.
(See Adv. Index Page 178)
Holser & Co., B. I.
Walkerton, Ind.

Your Customers Know "Black Leaf 40"



"Black Leaf 40" is packed in 10 lb. tins, 2 lb. tins and in ½ lb. bottles for commercial use and in oz. bottles for smaller flower and vegetable growers. Price list and information sent on request. Also electrotypes and advertising material for your use.

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Growers and orchardists have known and used "Black Leaf 40" for protecting their crops against destructive insects for nearly a quarter of a century; consequently the mere announcement that "Black Leaf 40" will control poultry lice is bound to make sales greatly increase. It will pay you to list "Black Leaf 40" in your seed catalogs and bulletins so that your customers are sure to know you handle it. We are advertising the various uses for "Black Leaf 40" to your customers, cash in on this substantial business that is waiting for you.

Tobacco By-Products & Chemical Corporation
Incorporated
Louisville, Kentucky

"Black Leaf 40"
40% Nicotine



POULTRY SUPPLIES—Concluded

POULTRY SUPPLIES—Continued

Illinois Supply Co.
Aurora, Ill.
Jacobus, M. R.
New York City, N. Y.
James Mfg. Co.
Ft. Atkinson, Wis.
Keipper Cooping Co.
Milwaukee, Wis.
Klein-Lambert Co.
Blue Island, Ill.
Lee Co., Geo. H.
Omaha, Neb.
Liberty Marvel Co.
Philadelphia, Pa.
Metcalf & Son, Inc.
Syracuse, N. Y.
Michigan Wire Goods Co.
Niles, Mich.
(See Adv. Index Page 178)
Miller Co., J. W.
Rockford, Ill.
Mit-Shel Stamping Mfg. Co.
Quincy, Ill.
National Poultry Band Co.
Newport, Ky.
Oakes Mfg. Co.
Tipton, Ind.
Ohio Rake Co.
Dayton, Ohio
O. K. Co.
New York, N. Y.
Parke, Davis & Co.
Detroit, Mich.
Pearson-Ferguson Co.
Kansas City, Mo.
Perfection Mfg. Co.
Monmouth, Ill.
Pratt Food Co.
Philadelphia, Pa.
Putnam, I.
Elmira, N. Y.
Quisenberry-Hobbs Co.
Kansas City, Mo.
(See Adv. Index Page 178)
Reliable Incubator & Brooder Co.
Quincy, Ill.
Rose Seed Co.
Clarksdale, Miss.
Scarlett & Co., Wm. G.
Baltimore, Md.

Scott Co., I. W.
Pittsburgh, Pa.
Simplex Brooder Stove Co.
Grand Rapids, Mich.
(See Adv. Index Page 178)
Smith-Conklin Co.
Binghamton, N. Y.
Standard Chemical Mfg. Co.
Omaha, Neb.
Supto Products Co.
Kansas City, Mo.
Universal Products Sales Co.
New York, N. Y.
Thompson & Sons, O. E.
Ypsilanti, Mich.
Von Damm, F. H.
Brooklyn, N. Y.
Wood & Sons, T. W.
Richmond, Va.

SODIUM FLUORIDE

C-A Wood Preserver Co.
St. Louis, Mo.
(See Adv. Index Page 178)
Carbolineum Wood Preserving Co.
Milwaukee, Wis.
Germo Mfg. Co.
St. Louis, Mo.

TOBACCO POWDER

Uniform Products Co.
Lancaster, Pa.

WORM MEDICINE

Germo Mfg. Co.
St. Louis, Mo.
Long Emulsion Co.
Terre Haute, Ind.
(See Adv. Index Page 178)
Merck & Co., Inc.
Rahway, N. J.
Pratt Food Co.
Philadelphia, Pa.
Quisenberry-Hobbs Co.
Kansas City, Mo.
(See Adv. Index Page 178)
Vitone Mineral Co.
Lancaster, Pa.

SPRAYERS AND SPRAY MATERIALS

(Insecticides and Fungicides)

ANIMAL DIPS

Bourbon Remedy Co.
Lexington, Ky.
Carbola Chemical Co.
Long Island City, N. Y.
Chipman Chemical Engineering Co.
Bound Brook, N. J.
Conkey Co., G. E.
Cleveland, Ohio
Germo Mfg. Co.
St. Louis, Mo.
Good, Inc., James
Philadelphia, Pa.
Lee Co., Geo. H.
Omaha, Neb.
LeGear Medicine Co., Dr. L. D.
St. Louis, Mo.
Lewis Co., G. B.
Watertown, Wis.
Pratt Food Co.
Philadelphia, Pa.
Quisenberry-Hobbs Co.
Kansas City, Mo.
(See Adv. Index Page 178)
Sherwin-Williams Co.
Cleveland, Ohio
Tobacco By-Products & Chem. Corp.
Louisville, Ky.
(See Adv. Index Page 178)

Wilson, Inc., Andrew
Springfield, N. J.
(See Adv. Index Page 178)

CROW REPELLENTS

Cedar Hill Formula Co.
New Britain, Conn.
Good, Inc., James
Philadelphia, Pa.
Scott Co., I. W.
Pittsburgh, Pa.

DUSTERS

Bean Spray Pump Co.
Lansing, Mich.
Brown Co., E. C.
Rochester, N. Y.
(See Adv. Index Page 178)
California Sprayer Co.
Los Angeles Calif.
Dobbs Mfg. Co.
North St. Paul, Minn.
(See Adv. Index Page 178)
Dust Sprayer Mfg. Co.
Kansas City, Mo.
Eureka Planter Co., Ltd.
Woodstock, Ont., Cana
Feeny Manufacturing Co.
Muncie, Ind.

These Nationally-Known Products of
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SHOULD BE IN ALL CATALOGS!



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WILSON'S O. K. PLANT SPRAY

A harmless, exceptionally effective insecticide for flowers, shrubs, evergreens, etc. Used by florists and estate superintendents everywhere.

½ pint	\$ 0.40
1 quart	1.00
1 gallon	3.00
5 gallons	12.00
10 gallons	20.00
25 gallon drums	50.00
50 gallon drums	90.00



Mix with water and sprinkle. One good application a year sufficient.

WILSON'S WEED KILLER

Kills all weeds, vines, poison ivy, etc. Easy to apply, inexpensive and clean.

1 gallon	\$ 2.00
5 gallons	8.00
10 gallons	15.00
25 gallon drums	30.00
50 gallon drums	50.00



Mixes easily in cold water—will not burn the hands or face.

WILSON'S SCALE-O

Scale-O, a dormant spray, will kill scale insects and eggs—also Aphis eggs, even in cold weather. Invaluable for the grower of fruit trees.

1 quart cans	\$ 0.75
1 gallon cans	2.00
5 gallon cans	9.00
10 gallon cans	15.00
30 gallon half drums	33.00
50 gallon drums	50.00

Send for discount sheets.

Andrew Wilson
 INC.

MANUFACTURERS OF

Insecticides—Fertilizers—Rhody-Life—Disinfectants

SPRINGFIELD

::

NEW JERSEY

SPRAYERS AND SPRAY MATERIALS—Continued

Dusters—Continued

- Hardie Mfg. Co.
Hudson, Mich.
- Houchin Co., Thos. W.
Jersey City, N. J.
- Iron King Implement Co.
Madison, Ohio
- Levio, P. E.
Vineland, N. J.
- Morse & Co., C. C.
San Francisco, Cal.
(See Adv. Index Page 178)
- Niagara Sprayer Co.
Middleport, N. Y.
- Peerless Dust Gun Co.
Cleveland, Ohio
(See Adv. Index Page 178)
- Potato Implement Co.
Traverse City, Mich.
- Sherwin-Williams Co.
Cleveland, Ohio
- Smith & Co., Inc., D. B.
Utica, N. Y.
(See Adv. Index Page 178)
- Utility Sprayer Co.
Minneapolis, Minn.

FLY REPELLENTS

- Allaire, Woodward & Co.
Peoria, Ill.
- Allen Mfg. Co., H. E.
Carthage, N. Y.
- Colonial Chemical Co.
Reading, Pa.
- Conkey Co., G. E.
Cleveland, Ohio
- Germo Mfg. Co.
St. Louis, Mo.
- Good, Inc., James
Philadelphia, Pa.
- LeGear Medicine Co., Dr. L. D.
St. Louis, Mo.
- Pratt Food Co.
Philadelphia, Pa.
- Quisenberry-Hobbs Co.
Kansas City, Mo.
(See Adv. Index Page 178)
- Sherwin-Williams Co.
Cleveland, Ohio
- Smith & Co., Inc., D. B.
Utica, N. Y.
(See Adv. Index Page 178)
- Anglefoot Co., The
Grand Rapids, Mich.
- Wilson, Inc., Andrew
Springfield, N. J.
(See Adv. Index Page 178)

FUMIGANTS

- American Cyanamid Co.
New York City, N. Y.
- Douglas Chemical & Supply Co.
Kansas City, Mo.
(See Adv. Index Page 178)
- Good, Inc., James
Philadelphia, Pa.
- Interstate Chem. Co.
Jersey City, N. J.
- LeGear Medicine Co., Dr. L. D.
St. Louis, Mo.
- Nicotine Mfg. Co.
St. Louis, Mo.
- Perth Amboy Chemical Works
New York City, N. Y.
- Quisenberry-Hobbs Co.
Kansas City, Mo.
(See Adv. Index Page 178)
- Tobacco By-Products & Chem. Co.
Louisville, Ky.
(See Adv. Index Page 178)
- Uniform Products Co.
Lancaster, Pa.

FUNGICIDES

- Acme White Lead & Color Works
Detroit, Mich.
- American Cyanamid Co.
New York City, N. Y.
- Aphine Mfg. Co.
Madison, N. J.
- Bawker Chemical Co.
New York City, N. Y.
- Bayer-Semesan Co., Inc. (Disinfectants)
New York, N. Y.
(See Adv. Index Page 178)
- Carbola Chemical Co.
Long Island City, N. Y.
- Chipman Chem. Engineer Co.
Bound Brook, N. J.
- Devoe & Reynolds Co.
Chicago, Ill.
- General Chemical Co.
New York, N. Y.
- Good, Inc., James
Philadelphia, Pa.
- Grasselli Chemical Co.
Cleveland, Ohio
- Hammonds Paint & Slug Shot Works
Beacon, N. Y.
- Interstate Chemical Co.
Jersey City, N. J.
- Leggatt & Bro., Inc.
% Interstate Chemical Co.
Jersey City, N. J.
- Nitrate Agencies Co.
Bayonne, N. J.
- Pratt Co., B. G.
New York City, N. Y.
- Sherwin-Williams Co.
Cleveland, Ohio
- Stumpp & Walter Co.
New York City, N. Y.
(See Adv. Index Page 178)
- Wilson, Inc., Andrew
Springfield, N. J.
(See Adv. Index Page 178)

INSECTICIDES

The following firms manufacture only plant insecticides except where otherwise noted:

- Acme White Lead & Color Works
Detroit, Mich.
- American Cyanamid Co.
New York City, N. Y.
- Ansbacher Insecticide Co.
New York City, N. Y.
- Aphine Mfg. Co.
Madison, N. J.
- Blaauw, John
Tacoma, Wash.
- Bon Arbor Chemical Co.
Paterson, N. J.
- Botanical Mfg. Co.
Philadelphia, Pa.
- Boundary Chemical Co.
Liverpool, England
- Bourbon Remedy Co. (also animal)
Lexington, Ky.
- Bowker Insecticide Co.
Baltimore, Md.
- Calif. Spray-Chemical Co.
New York City, N. Y.
(See Adv. Index Page 178)
- C-A Wood Preserver Co. (Animal)
St. Louis, Mo.
(See Adv. Index Page 178)
- Carbola Chemical Co. (Animal)
Long Island City, N. Y.
- Carbolineum Wood Preserving Co.
(Animal)
Milwaukee, Wis.
- Carco Spray Co., Inc.
Tacoma, Wash.
- Chipman Chemical Engineering Co.
Bound Brook, N. J.

5

CERESAN
SEMESAN JR.

SEMESAN

SEMESAN BEL

NU-GREEN

Profit Products For Seed Dealers



Every seed customer you have is a customer for Du Bay Seed Disinfectants as well. Why? Because there yet exists no practical means of knowing whether or not dangerous fungous diseases exist on the seed. Farmers, market gardeners, florists and amateurs are turning to seed disinfectants as a cheap, effective form of disease insurance. Sell them seed disinfectants when you sell them seeds.

SEED DISINFECTANTS

Sales Aids

Extensive advertising campaigns in state and national farm publications reach practically every prospect in the sections which grow 97% of all the wheat; 94% of all the oats; 98% of all the barley; 74% of all the corn and 78% of all the potatoes grown in the U. S.

Free Illustrated Booklets
Catalog Copy
Newspaper Electros
Moving Pictures
Movie Slides
Window Displays
Sales Letters
Sales Information Bulletins
Radio Talks

Ceresan offers unlimited possibilities since its use as an easily applied dust is effective against the smuts of wheat, oats, barley, rye and sorghum, diseases which cause millions of dollars' loss.

Semesan Jr. is used by farmers as an effective means of protecting seed corn from rotting in the ground. It controls corn root rot diseases and generally increases yields, at an acre cost of only 2½c.

Semesan Bel offers potato growers ease of application by instantaneous dip treatment, freedom from injury to the seed piece, protection against seed-borne diseases, and generally increased yields.

Semesan costs only ¼c to 1c per pound of flower and vegetable seed and may be applied in dust or liquid form.

Nu-Green is a combination disinfectant and stimulator for the Brown Patch disease of golf greens.

Write for full details of this profitable side line:

BAYER-SEMESAN CO., INC.

105 Hudson Street

New York, N. Y.

SPRAYERS AND SPRAY MATERIALS—Continued

INSECTICIDES—Continued

- G. E. Conkey Co. (Animal)
Cleveland, Ohio
- Cook & Co., Geo. C.
New York City, N. Y.
- Daigger & Co., A.
Chicago, Ill.
- Devoe & Reynolds
Chicago, Ill.
- Douglas Chemical & Supply Co.**
Kansas City, Mo.
(See Adv. Index Page 178)
- Dow Chemical Co.
Midland, Mich.
- Enoz Chemical Co.
Chicago, Ill.
- Felix-Girard Co., Inc.
Minneapolis, Minn.
- Fertall Co.
Newark, N. J.
- Friedman Tobacco Products Corp.
York, Pa.
- Garden Chemical Co.
New York City, N. Y.
- General Basic Products Co.
Seattle, Wash.
- General Chemical Co.
New York City, N. Y.
- Glidden Co., The
Cleveland, Ohio
- Golden State Milk Products Co.
San Francisco, Calif.
- Golden States Sales Corp.
New York, N. Y.
- Good, Inc., James
Philadelphia, Pa.
- Grasselli Chemical Co.
Cleveland, Ohio
- Hammond's Paint & Slug Shot Works
Beacon, N. Y.
- Hempstead, Earl L.
Bloomington, Ill.
- Home Products, Inc.
Rahway, N. J.
- Horn Co., A. C.
Long Island City, N. Y.
- Interstate Chemical Co.
Jersey City, N. J.
- Keeling & Walker, Ltd.
London, England
- Klein-Lambert Co. (Also Animal)
Blue Island, Ill.
- LeGear Medicine Co., Dr. L. D. (Animal)
St. Louis, Mo.
- Leggatt & Bro., Inc.
% Interstate Chemical Co.
Jersey City, N. J.
- Lemon Oil Co.
Baltimore, Md.
- McCormick & Co., Inc.**
Baltimore, Md.
(See Adv. Index Page 178)
- McLaughlin Gormley King & Co.**
Minneapolis, Minn.
(See Adv. Index Page 178)
- Modern Products Corp.
Chicago, Ill.
- National Plant Food Co.
Eau Claire, Wis.
- Niagara Sprayer Co.
Middleport, N. Y.
- Nico Dust Mfg. Co.
Los Angeles, Calif.
- Nicotine Mfg. Co.
St. Louis, Mo.
- Nitrate Agencies Co.
Bayonne, N. J.
- Perfection Chemical Co.
Flushing, N. Y.
- Perth Amboy Chemical Works
New York City, N. Y.
- Potash-Marl, Inc.
New York City, N. Y.
- Powell & Co., Inc., John
New York City, N. Y.
- Pratt Co., B. G.
New York City, N. Y.
- Pratt Food Co. (Animal)
Philadelphia, Pa.
- Quisenberry-Hobbs Co.**
Kansas City, Mo.
(See Adv. Index Page 178)
- Rice, J. H.
Ashtabula, Ohio
- Shepard Laboratories**
Council Bluffs, Iowa
(See Adv. Index Page 178)
- Sherwin-Williams Co.
Cleveland, Ohio
- Smith & Co., Inc., D. B.**
Utica, N. Y.
(See Adv. Index Page 178)
- Sporicide Chemical Co.
Atlanta, N. Y.
- Stanley Jordan & Co.
New York City, N. Y.
(See Adv. Index Page 178)
- Sunset Sales Co.
Tacoma, Wash.
- Tobacco By-Products & Chemical Corp.**
Louisville, Ky. (Also Animal)
(See Adv. Index Page 178)
- Uniform Products Co. (Also Animal)
Lancaster, Pa.
- Vigor Co.
Fostoria, Ohio
- Virginia-Carolina Chemical Corp.**
Richmond, Va.
(See Adv. Index Page 178)
- Wilson, Inc., Andrew**
Springfield, N. J.
(See Adv. Index Page 178)

MOTH KILLERS

- Allaire, Woodward & Co.
Peoria, Ill.
- Douglas Chemical & Supply Co.**
Kansas City, Mo.
(See Adv. Index Page 178)
- Enoz Chemical Co.
Chicago, Ill.
- Gateway Chemical Co.
Kansas City, Mo.
- Good, Inc., James
Philadelphia, Pa.
- Home Products, Inc.
Rahway, N. J.
- Taylor Chemical Co.
New York City, N. Y.
- Wilson, Inc., Andrew**
Springfield, N. J.
(See Adv. Index Page 178)

PEST EXTERMINATORS

(Rats, Etc.)

- Allen Mfg. Co., Inc., H. E.
Carthage, N. Y.
- American Cyanamid Co.
New York City, N. Y.
- Automatic Trap Co.
Chicago, Ill.
- Bon Arbor Chemical Co.
Paterson, N. J.
- Botanical Mfg. Co.
Philadelphia, Pa.
- Carbola Chemical Co.
Long Island City, N. Y.
- Chipman Chem. Engineering Co.
Bound Brook, N. J.
- Douglas Chemical & Supply Co.**
Kansas City, Mo.
(See Adv. Index Page 178)
- Dugan, Herbert F.
San Francisco, Calif.
- Enoz Chemical Co.
Chicago, Ill.
- Felix, Girard & Co., Inc.
Minneapolis, Minn.

M.G.K.
QUALITY
EVER GREEN
NON-POISONOUS INSECTICIDE

meets the demand for:—

- a sure, quick killer of plant insects—both chewing and sucking varieties;
- a **safe** insecticide . . . harmless to man, animals, birds and plants;
- pleasant** to use, no disagreeable odors;
- economical**—dilutes 1 to 800 for aphids.

Nationally advertised; sales growing by leaps and bounds; a liberal profit margin for dealers. Write for our proposition.

McLAUGHLIN GORMLEY KING CO.
1728 S. E. Fifth St. Minneapolis, Minn.

No dealer can afford to be without

RED ARROW INSECT SPRAY BEE BRAND INSECT POWDER
Non-poisonous — Odorless — Non-inflammable — Non-staining

Nearest perfection in war against insects affecting

Flower and Vegetable Garden	Truck Crop	Greenhouses
Small Fruits	Orchards	Home
Kennel	Dairy and Stock Farms	Poultry House

Literature, Sample, Testimonials and Quotations on Application

McCORMICK & CO., INC., Manufacturing Chemists
Pioneers in Pyrethrum Products

BALTIMORE

MARYLAND

SAVE TIME AND MONEY

by using these seed germination pads. They can conveniently be used in any make of machine. The size of the pads are 3x3", each having 100 indentations.

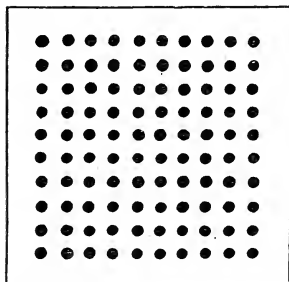
Why Count the Seeds?

The indentations of these pads are correct for average size seeds such as Red Clover and all seeds of similar size. If it is desirable to have a blotter pad on top, they can be used to advantage in that way. Orders for thousands of these pads have already been received.

They are **SEEDBURD** Quality

The cost is reasonable. Samples and prices on request.

The Seed Trade Reporting Bureau
1018 S. Wabash Ave., Chicago



SPRAYERS AND SPRAY MATERIALS—Continued

Pest Exterminators—Continued

Good, Inc., Jas.
Philadelphia, Pa.
LeGear Medicine Co., Dr. L. D.
St. Louis, Mo.
Merchants Drug Co.
Easton, Md.
Modern Products Corporation
Chicago, Ill.
Quisenberry-Hobbs Co.
Kansas City, Mo.
(See Adv. Index Page 178)
Rat Bis-Kit Co.
Springfield, Ohio
Reardon Laboratories, Inc., W. G.
Port Chester, N. Y.
(See Adv. Index Page 178)
Stearns' Electric Paste
Chicago, Ill.
Stimulant Laboratories, Inc.
Long Island City, N. Y.
(See Adv. Index Page 178)
Tanglefoot Co., The
Grand Rapids, Mich.
Virus, Ltd., R. R.
New York City, N. Y.
Wilson, Inc., Andrew
Springfield, N. J.
(See Adv. Index Page 178)
X-Termo Products, Inc.
Milwaukee, Wis.

SEED DISINFECTANTS

Bayer-Semesan Co., Inc.
New York, N. Y.
(See Adv. Index Page 178)

SPRAYERS

Alliance Mfg. Co., The
Alliance, Ohio
Armstrong Mfg. Co.
Huntington, W. Va.
Barnes Mfg. Co.
Mansfield, Ohio
Bateman Co., Fred H.
Philadelphia, Pa.
Bean Spray Pump Co.
Lansing, Mich.
Brower Mfg. Co.
Quincy, Ill.
Brown Co., E. C.
Rochester, N. Y.
(See Adv. Index Page 178)
Campbell-Hausfeld Co., The
Harrison, Ohio
Cincinnati Screw Co.
Cincinnati, Ohio
Crown Mfg. Co.
Phelps, N. Y.
Deming Co.
Salem, Ohio
Dobbins Mfg. Co., The
N. St. Paul, Minn.
(See Adv. Index Page 178)

Eureka Mower Co.
Utica, N. Y.
Feeny Mfg. Co.
Muncie, Ind.
Field Force Pump Co.
Elmira, N. Y.
Friend Mfg. Co.
Gasport, N. Y.
Goulds Mfg. Co.
Seneca Falls, N. Y.
Hardie Mfg. Co.
Hudson, Mich.
Hayes Pump & Planter Co.
Hoef & Co., Inc.
North Chicago, Ill.
(See Adv. Index Page 178)
Galva, Ill.
Hudson Mfg. Co.
Minneapolis, Minn.
(See Adv. Index Page 178)
Humphreys Mfg. Co.
Mansfield, Ohio
Iron King Implement Co.
Madison, Ohio
Lenox Misty Sprayer Mfg. Co., The
New York, N. Y.
Morrill & Morley Mfg. Co.
Benton Harbor, Mich.
Myers & Bro. Co., The F. E.
Ashland, Ohio
(See Adv. Index Page 178)
Niagara Sprayer Co.
Middleport, N. Y.
Peerless Dust Gun Co.
Cleveland, Ohio
(See Adv. Index Page 178)
Potato Implement Co.
Traverse City, Mich.
Smith & Co., D. B.
Utica, N. Y.
(See Adv. Index Page 178)
Utility Sprayer Co.
Minneapolis, Minn.

WEED DESTROYERS

Atlas Preservative Co.
New York City, N. Y.
Bentley, Ltd., Jos.
Hull, England
Bon Arbor Chemical Co.
Paterson, N. J.
Boundary Chemical Co.
Liverpool, England
Chipman Chemical Engineering Co., Inc.
Bound Brook, N. J.
Good, Inc., James
Philadelphia, Pa.
Interstate Chem. Co.
Jersey City, N. J.
Milwaukee Paper Pulley Works
Milwaukee, Wis.
Sowrite, Inc.
New York, N. Y.
Wilson, Inc., Andrew
Springfield, N. J.
(See Adv. Index Page 178)

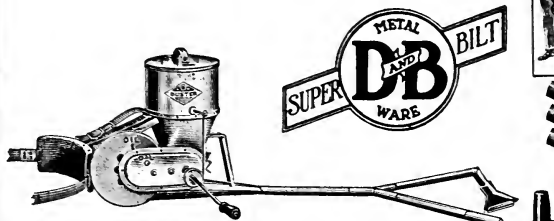
STOCK FOODS AND REMEDIES

STOCK FOODS

American Dry Milk Institute
Chicago, Ill.
American Milling Co.
Peoria, Ill.
Blatchford Calf Meal Co.
Waukegan, Ill.
Casco Milling Co.
Omaha, Neb.
Clover Leaf Milling Co.
Buffalo, N. Y.
Conkey Co., The G. E.
Cleveland, Ohio
Corn Products Refining Co.
New York, N. Y.

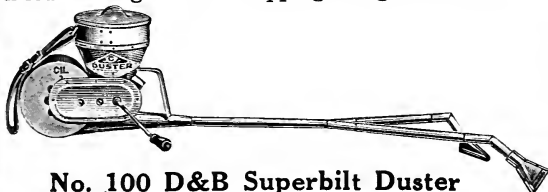
Curtin Company, George L.
New York, N. Y.
Dacotah Seed Co.
Bismarck, N. D.
(See Adv. Index Page 178)
Dairymen's Ass'n
Lyndon, Vt.
Douglas Co.
Cedar Rapids, Ia.
Hales & Hunter Co.
Chicago, Ill.
Hardeman-King Co.
Amarillo, Texas
International Sugar Feed Co.
Minneapolis, Minn.

D & B SUPERBILT SPRAYERS AND DUSTERS



No. 200 D&B Superbilt Duster

Capacity 5 to 10 lbs., depending upon powder used. Complete with fittings for one or two rows. Steel cut gears enclosed in case filled with grease. Shipping weight 22 lbs.



No. 100 D&B Superbilt Duster

Of same general construction as No. 200. Capacity 3 to 6 lbs., depending on powder used. Equipped for one or two rows. Shipping weight 14½ lbs.



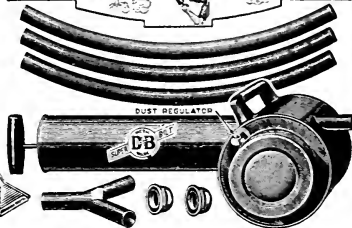
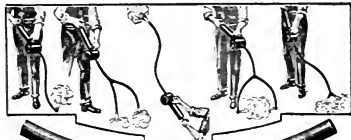
Superbilt Sprayer

No. 399G—Galv. Tank.
No. 399B—Brass Tank.
Capacity 4 gallons. Shipping weight 12 lbs. Includes 24" Brass Extension and Universal Nozzle.



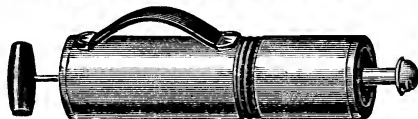
Rival Sprayer

No. 288G—Galv. Tank.
No. 288B—Brass Tank.
Capacity 3½ gallons. Shipping weight 10 lbs. Includes 20" Extension.



No. 120 Dandy Duster

Will do more work in less time than possible with any but higher priced dusters. Equipped with fittings for many varied operations. Packed two to the carton. Shipping weight 8 lbs.



No. 130 Little Wonder Duster

Equipped with 24 inches of extension and angle nozzle. Packed one dozen to the carton. Shipping weight 16½ lbs.



Gardener Sprayer

No. 4G—Galv. Tank.
No. 4B—Brass Tank.
Capacity 2 gals. Shipping weight 7 lbs. Includes 20" Extension.

THE DOBBINS MFG. CO.
NORTH ST. PAUL, MINN.

STOCK FOODS AND REMEDIES

Stock foods—Continued

Nowak Milling Corporation
Buffalo, N. Y.
Peters Mill Co., M. C.
Omaha, Neb.
Pratt Food Co.
Philadelphia, Pa.
Quaker Oats Co.
Chicago, Ill.
Ralston Purina Co.
St. Louis, Mo.
Security Calf Food Co.
Minneapolis, Minn.
Steel Co., The F. R.
Chicago, Ill.
Universal Products Sales Co.
New York, N. Y.
Vitality Mills
Chicago, Ill.
Ubiko Milling Co.
Cincinnati, Ohio
Wilson & Co., Inc.
Chicago, Ill.

Carey Salt Co.
Hutchinson, Kan.
Conkey, Co., The G. E.
Cleveland, Ohio
Dairymen's Ass'n
Lyndon, Vt.
Feil Mfg. Co.
Cleveland, Ohio
Fleming Bros., Chemists
Chicago, Ill.
Glover Co., Inc., H. Clay
New York, N. Y.
Hess & Clark, Dr.
Ashland, Ohio
Lee Co., Geo. H.
Omaha, Neb.
LeGear Medicine Co., Dr. L. D.
St. Louis, Mo.
Magic Food Co.
Chattanooga, Tenn.
Modern Products Corp.
Chicago, Ill.
Pratt Food Co.
Philadelphia, Pa.
Sherwin-Williams
Cleveland, Ohio
Standard Chemical Mfg. Co.
Omaha, Neb.
Uniform Products Co.
Lancaster, Pa.

STOCK REMEDIES

Bee Dee Stock Medicine Co.
Chattanooga, Tenn.
Bourbon Remedy Co.
Lexington, Ky.
Carbola Chemical Co.
Long Island City, N. Y.

MISCELLANEOUS SIDE LINES

ADVERTISING SPECIALTIES—
WOOD

Root Co., A. I.
Medina, Ohio

BEE SUPPLIES

Bell's, Ltd.
Prince Albert, Saskatchewan
Dadant & Sons
Hamilton, Ill.
Kilgore Seed Co.
Plant City, Fla.
Lewis Co., G. B.
Watertown, Wis.
Root Co., A. I.
Medina, Ohio
Scott Co., I. W.
Pittsburgh, Pa.

BOOKS ON FARMING AND
GARDENING

DeLaMare Co., Inc., A. T.
New York City, N. Y.
Doubleday, Page & Co.
Garden City, N. Y.
Lippincott Co., J. B.
Philadelphia, Pa.
Little, Brown & Co.
Boston, Mass.
MacMillan Co., The
New York City, N. Y.
Orange Judd Publ. Co., Inc.
New York City, N. Y.
Webb Publishing Co.
St. Paul, Minn.

BOWLS—BULB

Hews & Co., Inc., A. H.
Syracuse, N. Y.
Paducah Pottery Co.
Paducah, Ky.
Roseville Pottery Co.
Zanesville, Ohio
Syracuse Pottery, Inc.
Syracuse, N. Y.

Zane Pottery Co.
So. Zanesville, Ohio

FLOWERS—ARTIFICIAL

Adler-Jones Co.
Chicago, Ill.

FEATHER FLOWERS

DeWitt Sisters
Battle Creek, Mich.

GLOBES (GAZING)

American Thermo-Ware Co., Inc.
New York, N. Y.
(See Adv. Index Page 178)

HANGING BASKETS

Hews & Co., Inc., A. H.
Syracuse, N. Y.
Miller & Doing
Brooklyn, N. Y.
Raedlein Basket Co.
Chicago, Ill.
Savo Mfg. Co.
Chicago, Ill.
Syracuse Pottery, Inc.
Syracuse, N. Y.

MUSHROOM SPAWN

American Spawn Co.
St. Paul, Minn.
Michell Co., Henry F.
Philadelphia, Pa.
Niles Mushroom Co.
Niles, Mich.

NOVELTIES

N. Shure Company
Chicago, Ill.

SOIL TESTERS

Dickinson Co., The Albert
Chicago, Ill.
Earp Laboratories
Bloomfield, N. J.



COTTON BAGS

ALL TYPES

*We have very attractive prices to offer.
Kindly write for our prices and samples.*

MAIN OFFICE
AMES BAG MACHINE CO.

1991 E. 66th St., Cleveland, Ohio

PLANTS

Cleveland, Ohio Selma, Alabama
Mentor, Ohio

PROTECT YOUR SEED SHIPMENTS

The Porter Safety Seal—"The Seal That Seals"

Gives positive assurance against adulteration or substitution. Makes it possible to attach analysis or shipping tags with one operation at the time of sealing.

Is inexpensive; will not get out of order; is simple and easy to operate.

Meets every requirement of the P. O. Dept. and is universally used by banks for sealing shipments of coin and currency.

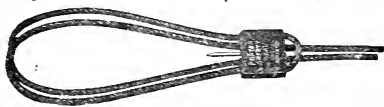
The Porter Safety Seal is the invention of Capt. Thos. I. Porter of the U. S. Secret Service. It consists of a piece of lead with a steel pin firmly embedded in it, and has four

parallel holes through which is threaded a stout cord. With one simple operation the pin is forced into folded neck of bag and cord is pulled tight. The seal is compressed, imprinting your name and address and crimping seal, thus sealing the bag securely in such a manner that it cannot be opened without destroying the seal or leaving unmistakable evidence of tampering.

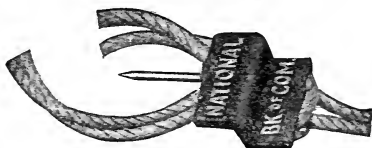
Sample sealed bag and full information sent on request.



Seal on
Neck of Bag



The Porter Safety Seal before and
after being used



Porter Safety Seal Co. 157 West Harrison St., CHICAGO

MISCELLANEOUS SIDE LINES—Continued

TREE PROTECTION

Owens Co., J. L.
 Minneapolis, Minn.
 Sheffield Mfg. Co.
 Burr Oak, Mich.
 Tanglefoot Co., The
 Grand Rapids, Mich.

XMAS GREENS

Bitsche Seed & Nursery Co. (Mistletoe)
 Chickasha, Okla.
 Chesmore Seed Co.
 St. Joseph, Mo.
 Conwell, Inc., H. Ernest
 Milton, Delaware

Hofert, J.
 Los Angeles, Cal.
 Jones, The Holly Wreath Man
 Milton, Dela.
 Neilson, Knud
 Evergreen, Ala.
 Oregon Holly & Evergreen Co.
 Portland, Ore.
 Poeslman Bros.
 Chicago, Ill.
 Robbins, E. C.
 Pineola, N. C.

XMAS TREE HOLDERS

Dicks Stamping Co., Inc.
 Buffalo, N. Y.

SEEDSMEN'S SUPPLIES

ACCOUNTANTS AND ACCOUNTING SYSTEMS

Ernst & Ernst
 New York, N. Y.

ADV. FOR SEEDSMEN

Benton Review Shop
 Fowler, Ind.
 DeLaMare Co., Inc., A. T.
 New York, N. Y.
 Hartland Adv. Service
 New York, N. Y.
 Hurley, D. C.
 Boston, Mass.
 Lau Colortype Co., Max
 Chicago, Ill.
 Karle Lithographic Co.
 Rochester, N. Y.
 McFarland Publicity Service
 Harrisburg, Pa.
 Manz Engraving Co.
 Chicago, Ill.
 Morse Co., A. B.
 St. Joseph, Mich.
 Newell, R. B.
 Chicago, Ill.
 Rochester Litho. Co.
 Rochester, N. Y.

BAGS—COTTON OR BURLAP

Ames Bag Machine Co.
 Cleveland, Ohio
 (See Adv. Index Page 178)
 Bemis Bro. Bag Co.
 St. Louis, Mo.
 (See Adv. Index Page 178)
 Bosworth Co., M. M.
 Memphis, Tenn.
 Chase Bag Co.
 Cleveland, Ohio
 Chatfield & Wood Sack Co.
 Cincinnati, Ohio
 Cleveland Buckram & Bag Co.
 Cleveland, Ohio
 (See Adv. Index Page 178)
 Field & Co., Marshall
 Chicago, Ill.
 Messinger Paper Co.
 Chicago, Ill.
 Morrison & Risman Co.
 Buffalo, N. Y.
 Southern Cotton Mills Agency
 Baltimore, Md.
 Western Bag Co.
 Nashville, Tenn.

BAGS—PAPER

Bates Valve Bag Co., R. P.
 Chicago, Ill.
 Bemis Bro. Bag Co.
 St. Louis, Mo.
 (See Adv. Index Page 178)

Brown Bag Filling Machine Co.
 Fitchburg, Mass.

(See Adv. Index Page 178)

Chase Bag Co.
 Cleveland, Ohio
 International Paper Co.
 New York, N. Y.
 (See Adv. Index Page 178)
 Messinger Paper Co.
 Chicago, Ill.
 Miller Brothers Company
 Newark, N. J.
 Stone & Forsyth Co.
 Boston, Mass.

BAG CLOSING MACHINES

Bates Valve Bag Co., R. P.
 Chicago, Ill.
 Brown Bag Filling Machine Co.
 Fitchburg, Mass.
 (See Adv. Index Page 178)
 Savage Co., Inc., W. J.
 Knoxville, Tenn.
 Union Special Machine Co.
 Chicago, Ill.

BAG FILLING MACHINES

Brown Bag Filling Machine Co.
 Fitchburg, Mass.
 (See Adv. Index Page 178)
 Howes Co., S.
 Silver Creek, N. Y.
 Huntley Mfg. Co.
 Brocton, N. Y.
 National Packaging Machinery Co.
 Jamaica Plain, Boston, Mass.
 Stokes & Smith Co., The
 Philadelphia, Pa.
 Union Special Machine Co.
 Chicago, Ill.

BAG HOLDERS

Gump Co., B. F.
 Chicago, Ill.
 Strong Scott Co.
 Minneapolis, Minn.

BAG PILERS—CONVEYORS

Dow Wire & Iron Works
 Louisville, Ky.
 Howes Co., S.
 Silver Creek, N. Y.
 Revolver Co.
 Jersey City, N. J.

BAG SEALS

Bates Valve Bag Co., R. P.
 Chicago, Ill.
 Porter Safety Seal Co.
 Chicago, Ill.
 (See Adv. Index Page 178)

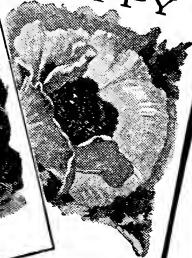
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CARTONS HANGERS
CATALOG COVERS

CABBAGE



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SEEDSMEN'S SUPPLIES—Continued

BAG STITCHING MACHINES

Union Special Machine Co.
Chicago, Ill.

BAG TRIERS

Seed Trade Reporting Bureau
Chicago, Ill.
(See Adv. Index Page 178)

BEAN PICKERS

Ferrell & Co., A. T.
Saginaw, Mich.
Howes Co., S.
Silver Creek, N. Y.
Huntley Mfg. Co.
Brocton, N. Y.
Judson Michiganbean Co.
Detroit, Mich.

BOXES—PARCEL POST

Hinde & Dauch Paper Co.
Sandusky, Ohio
Stone & Forsyth Co.
Boston, Mass.

CARTONS—PAPER

Galloway Lithographing Co.
San Francisco, Calif.
(See Adv. Index Page 178)
Gereke Allen Carton Co.
St. Louis, Mo.
Heinrich, Inc., John A.
Minneapolis, Minn.
(See Adv. Index Page 178)
Sefton Mfg. Co.
Chicago, Ill.
Stecher Lithographic Co.
Rochester, N. Y.
(See Adv. Index Page 178)
Stone & Forsyth Co.
Boston, Mass.
Weaver Mailing Env. & Box Co.
Philadelphia, Pa.
Webster Co., Mel L.
Independence, Ia.

CARTONS—PRINTED

Galloway Lithographing Co.
San Francisco, Calif.
(See Adv. Index Page 178)
Genesee Valley Lithograph Co.
Rochester, N. Y.
(See Adv. Index Page 178)
Karle Lithographic Co.
Rochester, N. Y.
Miller Brothers Company
Newark, N. J.
Sefton Mfg. Co.
Chicago, Ill.
Stecher Lithographic Co.
Rochester, N. Y.
(See Adv. Index Page 178)

CATALOG COLORED COVERS

Campbell Printing Co.
Des Moines, Iowa
(See Adv. Index Page 178)
Christy Color Engraving & Ptg. Co.
Rochester, N. Y.
Excelsior Printing Co.
Chicago, Ill.
Galloway Lithographing Co.
San Francisco, Calif.
(See Adv. Index Page 178)
Genesee Press, The
Rochester, N. Y.
Genesee Valley Lithograph Co.
Rochester, N. Y.
(See Adv. Index Page 178)
Karle Lithographic Co.
Rochester, N. Y.
Lau Colortype Co., Max
Chicago, Ill.
McFarland Co., J. Horace
Harrisburg, Pa.

Magill-Weinsheimer Co.
Chicago, Ill.
Merchants Litho. Co.
Chicago, Ill.
Morse Co., A. B.
St. Joseph, Mich.
Printing Products Corporation
Chicago, Ill.
Quality Print
Shelbyville, Ind.
Rimes Illustrating Co., M. L.
New York, N. Y.
Rochester Lithographing Co.
Rochester, N. Y.
Stecher Lithographing Co.
Rochester, N. Y.
(See Adv. Index Page 178)

CATALOG ILLUSTRATIONS

Campbell Printing Co.
Des Moines, Iowa
(See Adv. Index Page 178)
Galloway Litho. Co., Inc.
San Francisco, Cal.
(See Adv. Index Page 178)
Genesee Press, The
Rochester, N. Y.
Lau Colortype Co., Max
Chicago, Ill.
Lotus Engraving Co.
Atchison, Kans.
McFarland Publicity Service
Harrisburg, Pa.
Magill-Weinsheimer Co.
Chicago, Ill.
Manz Engraving Co.,
Chicago, Ill.
Rimes Illustrating Co., M. L.
New York City, N. Y.
Rochester Litho. Co.
Rochester, N. Y.

CATALOG PRINTERS

Benton Review Shop
Fowler, Ind.
Byrd Press, Inc., The Wm.
Richmond, Va.
Campbell Printing Co.
Des Moines, Iowa
(See Adv. Index Page 178)
Combe Printing Co.
St. Joseph, Mo.
Cuneo Co., The
Chicago, Ill.
DeLaMare Co., Inc., A. T.
New York, N. Y.
Excelsior Printing Co.
Chicago, Ill.
Franklin Hudson Publ. Co.
Kansas City, Mo.
Gable Bros. Printing Co.
Brookfield, Ill.
Genesee Press, The
Rochester, N. Y.
Hartland Adv. Service
New York, N. Y.
Karle Lithographic Co.
Rochester, N. Y.
Lau Colortype Co., Max
Chicago, Ill.
McFarland Publicity Service
Harrisburg, Pa.
Magill-Weinsheimer Co.
Chicago, Ill.
Morse Co., A. B.
St. Joseph, Mich.
Plough Printing Co.
Memphis, Tenn.
Printing Products Corp.
Chicago, Ill.
Process Color Printing Co.
Rochester, N. Y.
Rimes Illustrating Co., M. L.
New York, N. Y.
Stephens Printing & Stationery Co., The
Hugh
Jefferson City, Mo.

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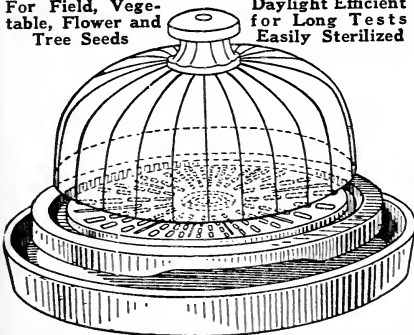
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Self-Watering Germinator

For Field, Vege-
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Daylight Efficient
for Long Tests
Easily Sterilized



Now after much experimenting a reliable and efficient self-moistening germinator is available.

The self-moistening porous disc has divided surface to facilitate counting. There are 10 sections of 10 indentations. The cover is of clear glass and ventilated.

This daylight germinator will attract attention in store, office or display window. More than 100 of these germinators are used by one of the large seed houses. It is guaranteed to be satisfactory. Price \$3.50 each, or \$3.25 in dozen lots, delivered in the United States.

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1018 S. Wabash Ave. Chicago

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We have never had a customer who discontinued the use of color in printing in a nursery or seed catalog. The unanimous opinion is: "It pays!"

Our collection of fine color plates for stock use is now very large.

Write us about your
catalog needs. We
can help you.

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PRINTING COMPANY**

917 Walnut St.
Des Moines, Iowa

SEEDSMEN'S SUPPLIES—Continued

CLEANING MACHINERY

- Burch Corporation, The
Crestline, Ohio
Cleland Mfg. Co.
Minneapolis, Minn.
Eddy Seed Cleaners, Ltd.
Toronto, Canada
Ferrell & Co., A. T.
Saginaw, Mich.
Gravity Grain Grader Co.
Stockton, Cal.
Howes Co., S.
Silver Creek, N. Y.
Huntley Mfg. Co.
Brocton, N. Y.
Johnson & Field Mfg. Co.
Racine, Wis.
Judson Michigan Co.
Detroit, Mich.
Owens Co., J. L.
Minneapolis, Minn.
Rice, W. A.
Jerseyville, Ill.
Sutton, Steele & Steele, Inc.
Dallas, Texas
Twin City Separator Co.
Minneapolis, Minn.

COLOR REPRODUCTIONS FOR
SEEDSMEN AND NURSERYMEN

- Genesee Press, The
Rochester, N. Y.
Lau Colortype Co., Max
Chicago, Ill.
Magill-Weinsheimer Co.
Chicago, Ill.
Manz Engraving Co.
Chicago, Ill.
Process Color Printing Co.
Rochester, N. Y.

COMMERCIAL SEED TESTING

- Commercial Seed Laboratory
Washington, D. C., and Toledo, O.
International Seed Testing Laboratories
New York, N. Y.
(See Adv. Index Page 178)

CORN GRADERS

- Cleland Mfg. Co.
Minneapolis, Minn.
Ferrell & Co., A. T.
Saginaw, Mich.
Howes Co., S.
Silver Creek, N. Y.
Hunnicut Co., Chas.
Wilmington, Ohio
Huntley Mfg. Co.
Brocton, N. Y.
Manson Cambell Co.
Detroit, Mich.
Maroa Mfg. Co.
Maroa, Ill.
Owens Co., J. L.
Minneapolis, Minn.
Richards & Sons, Ross V.
North Manchester, Ind.
Universal Hoist & Mfg. Co.
Cedar Falls, Iowa
(See Adv. Index Page 178)

CORN SHELLERS

- Constant Co., B. S.
Bloomington, Ill.
Howes Co., S.
Brocton, N. Y.
Union Iron Works
Decatur, Ill.

CRACKED CORN CLEANERS AND
GRADERS

- Cleland Mfg. Co.
Minneapolis, Minn.
Howes Co., S.
Silver Creek, N. Y.
Huntley Mfg. Co.
Brocton, N. Y.
Linkhart Mfg. Co.
Indianapolis, Ind.
Straub Co., A. W.
Philadelphia, Pa.
Universal Hoist & Mfg. Co.
Cedar Falls, Iowa
(See Adv. Index Page 178)

CRUSHERS

- Gruendler Pat. Crusher & Pul. Co.
St. Louis, Mo.
Williams Patent Crusher & Pulv. Co.
Chicago, Ill.

DUST COLLECTORS

- Day Co., The
Minneapolis, Minn.
Howes Co., S.
Silver Creek, N. Y.
Huntley Mfg. Co.
Brocton, N. Y.

ENVELOPES

- Berkowitz Envelope Co.
Kansas City, Mo.
(See Adv. Index Page 178)
Brown Bag Filling Mach. Co.
Fitchburg, Mass.
(See Adv. Index Page 178)
Eagle Envelope Co.
Chicago, Ill.
Heco Envelope Co.
Chicago, Ill.
Heinrich, Inc., John A.
Minneapolis, Minn.
(See Adv. Index Page 178)
Letalog Mailer Co.
Chicago, Ill.
Weaver Envelope Co.
Philadelphia, Pa.

FEED GRINDERS

- Duplex Mill & Mfg. Co.
Springfield, Ohio
Gibson Oat Crusher Co.
Chicago, Ill.
Gruendler Patent Crusher & Pulv. Co.
St. Louis, Mo.
Howes Co., S.
Silver Creek, N. Y.
Linkhart Mfg. Co.
Indianapolis, Ind.
McCarger Mfg. Co., L. B.
North Kansas City, Mo.
Williams Patent Crusher & Pulv. Co.
St. Louis, Mo.


FEED PACKAGING MACHINERY

- Ferguson & Co., J. L.
Joliet, Ill.
Howes Co., S.
Silver Creek, N. Y.
Huntley Mfg. Co.
Brocton, N. Y.
National Packaging Machinery Co.
Jamaica Plain, Boston, Mass.
Stokes & Smith Co., The
Philadelphia, Pa.

GERMINATORS

- Bridges Mfg. Co.
Bedford, Iowa

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Envelopes**
*for Every
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Nursery
Use*



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Catalog*

*Vestals & Sons
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SEEDSMEN'S SUPPLIES—Continued

Germinators—Continued

- Close-To-Nature Co.
Colfax, Iowa
Kny Scheerer Corp. of America
New York City, N. Y.
Seed Trade Reporting Bureau
Chicago, Ill.
(See Adv. Index Page 178)
Specialty Mfg. Co.
St. Paul, Minn.

GLAZING POINTS

- Dreer, Inc., Henry A.
Philadelphia, Pa.
Metropolitan Material Co.
Brooklyn, N. Y.

GRAIN CLEANERS

- Ferrell & Co., A. T.
Saginaw, Mich.

GREENHOUSES

- American Greenhouse Mfg. Co.
Chicago, Ill.
King Construction Co.
North Tonawanda, N. Y.
Lord & Burnham Co.
Chicago, Ill.
Metropolitan Greenhouses
Brooklyn, N. Y.
Moninger Co., John C.
Chicago, Ill.

HULLERS

- Ferrell & Co., A. T.
Saginaw, Mich.

IRRIGATION SYSTEMS

- Dayton Irrigation Co.
Dayton, Ohio
Jacobs & Co., S.
Brooklyn, N. Y.
Martin Iron Works
Los Angeles, Calif.
Metropolitan Material Co.
Brooklyn, N. Y.
Skinner Irrigation Co.
Troy, Ohio
X. L. Mfg. Co.
Chicago, Ill.

LABORATORY EQUIPMENT

- Huntley Mfg. Co.
Brocton, N. Y.
Kny-Scheerer Corporation of America
New York City, N. Y.
Seed Trade Reporting Bureau
Chicago, Ill.
(See Adv. Index Page 178)
Specialty Mfg. Co.
St. Paul, Minn.
Torsion Balance Co.
New York City, N. Y.

LEGAL AID

- Bebb, Herbert
Chicago, Ill.
Smith, Curtis Nye
Boston, Mass.

MIXERS—SEED OR FEED

- Burch Corp.
Crestline, Ohio
Gump Co., B. F.
Chicago, Ill.
Howes Co., S.
Silver Creek, N. Y.
Huntley Mfg. Co.
Brocton, N. Y.
Savage Co., W. J.
Knoxville, Tenn.

PACKET FILLING

- Brown Bag Filling Machine Co.
Fitchburg, Mass.
(See Adv. Index Page 178)
National Packaging Machinery Co.
Jamaica Plains, Boston, Mass.

PACKET FILLING MACHINES

- Automatic Packaging Machinery Co.
Nashua, N. H.
Brown Bag Filling Machine Co.
Fitchburg, Mass.
(See Adv. Index Page 178)
Ferguson Co., J. L.
Joliet, Ill.
Hoepner Auto Scale Co.
Chicago, Ill.
Packaging Machinery Co.
Yonkers, N. Y.
Stokes & Smith Co., The
Philadelphia, Pa.

PATENT ATTORNEY

- Scheible, Albert
Chicago, Ill.

PAPER FOR CATALOGS

- Collins Co., A. M.
Philadelphia, Pa.
International Paper Co.
New York, N. Y.
(See Adv. Index Page 178)
Kimberly-Clark Co.
Chicago, Ill.
Quality Print, Inc.
Shelbyville, Ind.
Seaman Paper Co.
Chicago, Ill.

PAPER—MULCH

- International Paper Co.
New York, N. Y.
(See Adv. Index Page 178)

PAPER—WRAPPING

- International Paper Co.
New York, N. Y.
(See Adv. Index Page 178)
Messinger Paper Co.
Chicago, Ill.
Miller-Tompkins & Co.
New York City, N. Y.
Safe-pack Mills
Boston, Mass.
Stone & Forsyth Co.
Boston, Mass.

POSTERS

- Galloway Lithographing Co., Inc.
San Francisco, Cal.
(See Adv. Index Page 178)
Genesee Valley Lithograph Co.
Rochester, N. Y.
(See Adv. Index Page 178)
Morse Co., A. B.
St. Joseph, Mich.
Quality Print, Inc.
Shelbyville, Ind.
Rimes Illustrating Co., M. L.
New York, N. Y.
Stecher Lithographic Co.
Rochester, N. Y.
(See Adv. Index Page 178)

POULTRY FEED MACHINERY

- Gump Co., B. F.
Chicago, Ill.
Howes Co., S.
Silver Creek, N. Y.
Huntley Mfg. Co.
Brocton, N. Y.
National Packaging Machine Co.
Jamaica Plain, Boston, Mass.

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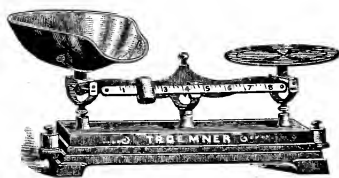


Fig. 39. AGATE SEED SCALE

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AND GRADING OF SEED,
GRAIN, ETC.

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CATALOG

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SEEDSMEN'S SUPPLIES—Continued

SAMPLE CASES

- Hamilton Mfg. Co.
Two Rivers, Wis.
Knickerbocker Case Co.
Chicago, Ill.
(See Adv. Index Page 178)
Lewis Co., G. B.
Watertown, Wis.

SAMPLE PANS

- Seed Trade Reporting Bureau
Chicago, Ill.
(See Adv. Index Page 178)

SCALES—AUTOMATIC

- Automatic Weighing Machine Co.
Brooklyn, N. Y.
Exact Weight Scale Co., The
Columbus, Ohio
Ferguson Co., J. L.
Joliet, Ill.
Howe Scale Co.
Chicago, Ill.
Howes Co., S.
Silver Creek, N. Y.
National Packaging Machine Co.
Jamaica Plain, Boston, Mass.
Richardson Scale Co.
Passaic, N. J.
Stokes & Smith Co., The
Philadelphia, Pa.
Toledo Scale Co.
Toledo, Ohio

SCALES—COUNTER OR PLAT-
FORM

- Exact Weight Scale Co., The
Columbus, Ohio
Fairbanks, Morse & Co.
Chicago, Ill.
Hoepner Auto. Scale Co.
Chicago, Ill.
Howe Scale Co.
Chicago, Ill.
Jacobs Bros. Co., Inc.
Brooklyn, N. Y.
Seed Trade Reporting Bureau
Chicago, Ill.
(See Adv. Index Page 178)
Toledo Scale Co.
Toledo, Ohio
Torsion Balance Co.
New York City.
Troemner Co., Henry
Philadelphia, Pa.
(See Adv. Index Page 178)

SCALES—LABORATORY

- Kny Scheerer Corp. of America
New York City, N. Y.
Seed Trade Reporting Bureau
Chicago, Ill.
(See Adv. Index Page 178)
Torsion Balance Co.
New York City, N. Y.

SCARIFIERS

- Birdsell Mfg. Co.
South Bend, Ind.
Cleland Mfg. Co.
Minneapolis, Minn.
Dufacto Mfg. Co.
Nevada, Iowa
Eddy Seed Cleaners, Ltd.
Toronto, Canada
Ferrell & Co., A. T.
Saginaw, Mich.
Jensen, P. E.
Nevada, Iowa

SCOOP TRUCKS

- Duluth Corrugating & Roofing Co.
Duluth, Minn.

SCREENS

- Chicago Perforating Co.
Chicago, Ill.
Erdle Perforating Co.
Rochester, N. Y.
Howes Co., S.
Silver Creek, N. Y.
Huntley Mfg. Co.
Brocton, N. Y.
Seed Trade Reporting Bureau
Chicago, Ill.
(See Adv. Index Page 178)

SEALS

- Bates Valve Bag Corp.
Chicago, Ill.
(See Adv. Index Page 178)
Porter Safety Seal Co.
Chicago, Ill.
(See Adv. Index Page 178)

SEED CASES

- Heller & Co., W. C.
Montpelier, Ohio
Lewis, G. B.
Watertown, Wis.
Walker Bin Co.
Penn Yan, N. Y.

SEED CLEANING

- Kellogg Seed Co., John L.
Chicago, Ill.
(See Adv. Index Page 178)

SEED DRIERS

- Ellis Drier Co.
Chicago, Ill.
Hess Warming & Ventilating Co.
Chicago, Ill.
Howes Co., S.
Silver Creek, N. Y.
Invincible Grain Cleaner Co.
Silver Creek, N. Y.
Martin Co., The
Des Moines, Ia.
Randolph Co., O. W.
Toledo, Ohio
Richards & Sons, Ross V.
North Manchester, Ind.

SEED ENVELOPE SEALERS

- Stokes & Smith Co., The
Philadelphia, Pa.

SEED PACKETS

- Brown Bag Filling Machine Co.
Fitchburg, Mass.
(See Adv. Index Page 178)
Galloway Lithographing Co.
San Francisco, Cal.
(See Adv. Index Page 178)
Genesee Valley Lithograph Co.
Rochester, N. Y.
(See Adv. Index Page 178)
Karle Lithographic Co.
Rochester, N. Y.
McFarland Co., J. Horace
Harrisburg, Pa.
Rochester Lithographing Co.
Rochester, N. Y.
Stecher Lithographic Co.
Rochester, N. Y.
(See Adv. Index Page 178)

SEED PACKET DISPLAY RACKS

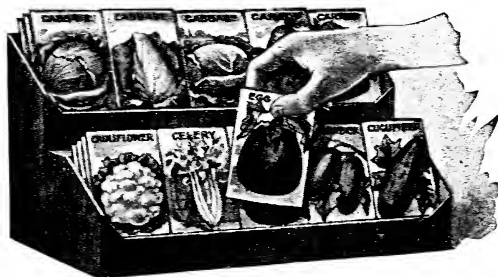
- Davis Metal Fixture Co.
Lansing, Mich.
(See Adv. Index Page 178)
Hamilton Mfg. Co.
Two Rivers, Wis.

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IN COLORS
TRUE TO NATURE
FOR ALL
VARIETIES OF
VEGETABLE AND
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SEEDS



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ROCHESTER, N. Y.

SEEDSMEN'S SUPPLIES—Concluded

Seed Packet Display Racks—Continued

- Knickerbocker Case Co.**
Chicago, Ill.
(See Adv. Index Page 178)
- Manitowoc Building Supply Co.**
Manitowoc, Wis.
- Walker Bin Co.**
Penn Yan, N. Y.
- Webster Co., Mel. L.**
Independence, Iowa

SEED POLISHERS

- Goodner Pump & Mfg. Co.**
Rocky Ford, Colo.

SEED SAMPLE ENVELOPES

- Ames Bag Machine Co.**
Cleveland, Ohio
(See Adv. Index Page 178)
- Bemis Bro. Bag Co.**
St. Louis, Mo.
(See Adv. Index Page 178)
- Berkowitz Envelope Co.**
Kansas City, Mo.
(See Adv. Index Page 178)
- Heco Envelope Co.**
Chicago, Ill.
- Heinrich, Inc., John A.**
Minneapolis, Minn.
(See Adv. Index Page 178)
- Miller, Tompkins & Co.**
New York City, N. Y.
- National Bag Co.**
Naperville, Ill.
- Ontario Co.**
Chicago, Ill.
- Stecher Lithographic Co.**
Rochester, N. Y.
(See Adv. Index Page 178)
- Tension Envelope Co.**
Brooklyn, N. Y.
- Weaver Mailing Envelope & Box Co.**
Philadelphia, Pa.
- Western Envelope Co.**
Kansas City, Mo.

SEED THRESHERS

- Birdsell Mfg. Co.**
South Bend, Ind.
- Caledonia Bean Harvester Works**
Caledonia, N. Y.
- Case Threshing Machine Co., J. I.**
Racine, Wis.
- Goodner Pump & Mfg. Co.**
Rocky Ford, Colo.
- Gray's Sons, Inc., A. W.**
Poultney, Vt.
- International Harvester Co.**
Chicago, Ill.
- Koger Pea & Bean Thresher Co.**
Morristown, Tenn.
- Owens Co., J. L.**
Minneapolis, Minn.

SHIPPING TAGS

- American Tag Co.**
Chicago, Ill.
- Dennison Mfg. Co.**
Framington, Mass.
- International Tag Co.**
Chicago, Ill.
- Quality Print, Inc.**
Shelbyville, Ind.
- Quality Tag Works**
Franklin, Ind.

STORE FIXTURES

- Davis Metal Fixture Co.**
Lansing, Mich.
(See Adv. Index Page 178)
- Heller & Co., W. C.**
Montpelier, Ohio
- National Cash Register Co.**
Dayton, Ohio
- Walker Bin Co.**
Penn Yan, N. Y.

TAG ADDRESSING MACHINES

- Addressing Machine Co.**
Buffalo, N. Y.

TRADE MARK REGISTRATIONS

- Scheible, Albert**
Chicago, Ill.

TRUCKS

- Chase Foundry & Mfg. Co.**
Columbus, Ohio
- Edwards Mfg. Co.**
Cincinnati, Ohio
- Nutting Truck Co.**
Faribault, Minn.
- Steubing Truck Co.**
Cincinnati, Ohio

TWINE-SEWING AND TYING

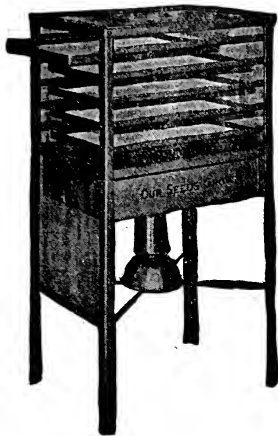
- Bemis Bro. Bag Co.**
St. Louis, Mo.
(See Adv. Index Page 178)
- Chase Bag Co.**
St. Louis, Mo.
- Messinger Paper Co.**
Chicago, Ill.
- Southern Cotton Mills Agency**
Baltimore, Md.
- Stone & Forsyth Co.**
Boston, Mass.

WRAPPING MACHINES—AUTO-MATIC

- American Machinery & Foundry Co.**
Brooklyn, N. Y.
- Ferguson Co., J. L.**
Joliet, Ill.

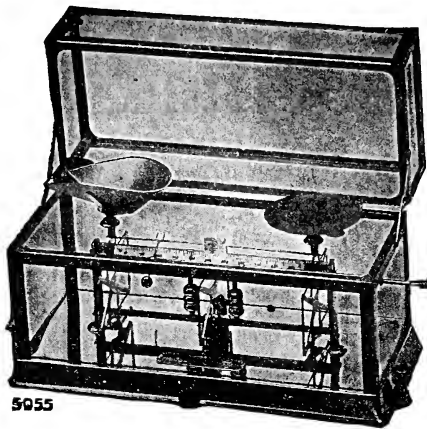
**When writing for
Seed and Supplies be sure
and use STICKERS
on page 179**

SEED TESTING EQUIPMENT



Sho-Gro Germinators

are Rapid—Reliable—Reasonable. Durablely made with glass sides—it is efficient, accurate and makes an attractive display of sprouting seeds that will interest your customers. Blotters are kept moist by evaporation. Has 5 trays 10 x 15 in. Electric or lamp heat. Price with oil heat, \$23.00. Electric (100 or 220 volts), \$30.00. Shipping weight, 95 lbs.



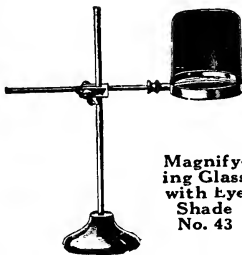
5055

Torsion Scale No. 5055

A fine balance for delicate weighing and the analysis of seed and grain. Capacity 120 grams, sensitiveness 2 milligrams. Rider beam 1 gram by .01 gram or if specified, 500 milligrams by 5 milligrams. Size 13x8 1/4 x 6 1/2 inches. Brass weights in mahogany case 2-20 grams to 1 gram. Price, \$72.00.

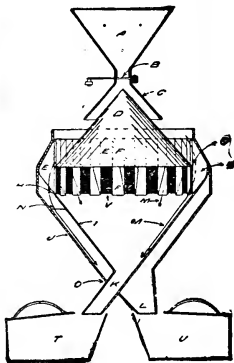


Seed Dockage Sieves for Clovers, Timothy and other Seeds of Similar Sizes. These sieves are correctly made in every particular. The size of the perforations—the accuracy of the construction—the strength—material and workmanship are SEEDBURO quality throughout. The complete set consists of 6 sieves and solid bottom pan, as follows: Three of the sieves have zinc bottom, with round perforations in sizes—1/20, 1/15, 1/18. Three have woven wire meshes in sizes 6x24 and 6x32, 6x34. Price \$8.00 for complete set f. o. b. Chicago. Shipping weight 9 lbs.



Magnifying Glass with Eye Shade No. 43

This 3 in. glass stand will be found very practical for examining grain and seed samples. The glass is held rigid on the stand and is easily adjusted to any angle or position. The eye shield is removable. Has heavy metal base, shipping weight, 4 lbs. Price, each, \$8.00.



The Boerner Sampler is of great benefit in securing reliable samples of seed. Mixes seed thoroughly and divides into two equal parts, securing as small a sample as is desired by repeated operation. No power required. Made of brass in exact accordance with Government specifications. Price \$35.00. Shipping weight 18 lbs.

Write for full descriptive matter on all seed testing equipment

SEED TRADE REPORTING BUREAU

1018 SOUTH WABASH AVENUE

CHICAGO, ILL.

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SEEDS



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As You Sow

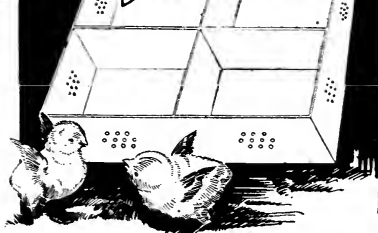
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 CUT NO. 105, DOUBLE COL., \$1.25



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CUT NO. 110B, SINGLE COL., \$1.00
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CUT NO. 107B, SINGLE COL., \$1.00
 CUT NO. 107, DOUBLE COL., \$1.25

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